

STIC-Biot ch/Ch mLib

92268

From: Li, Ruixiang  
Sent: Wednesday, April 23, 2003 6:16 PM  
To: STIC-Biotech/ChemLib  
Subject: Sequence search of Application NO: 09/898,586

Please do a standard search on SEQ ID NO: 23 against commercial nucleic acid databases.

Thank you very much!

Ruixiang Li  
GAU 1646  
CM1 10E18  
Mail Box 10D19  
306-0282

Point of Contact:  
Toby Port  
Technical Info. Specialist  
CM1 GA24  
703-308-2834

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 4/24  
Date Completed: 5/2  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:  
NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_



1



XX 13-JAN-2000: 2000US-0175989.  
 PR 14-JAN-2000: 2000US-0176134.  
 PR 25-JAN-2000: 2000US-0177839.  
 PR 26-JAN-2000: 2000US-0178191.  
 PR 26-JAN-2000: 2000US-0178227.  
 PR 14-JUL-2000: 2000US-0218324.  
 PR 24-JUL-2000: 2000US-0220253.  
 PR 25-JUL-2000: 2000US-0220590.  
 XX (CUBA-) CUBAGEN CORP.  
 PA Padigaru M, Prayaga SK, Taupier RJ, Mishra V, Tchernev VT;  
 PI Spytek KA, LI L;  
 XX WPI: 2001-451859/48.  
 DR P-PSDB: AAU05142.  
 XX New NOVX polypeptides and polynucleotides, useful for treating or  
 PT preventing disorders of the neuro-olfactory system, cancer and multiple  
 PT sclerosis -  
 XX  
 XX Claim 9: Page 55: 141pp: English.  
 XX  
 CC The sequence represents the coding sequence of human odorant receptor  
 CC (OR)-like protein, NOV12. The NOV12 polypeptide, nucleic acid and  
 CC antibody are useful as therapeutics, particularly in the manufacture of a  
 CC medicament for treating a syndrome associated with a human disease, which  
 CC includes a pathology associated with NOV12 polypeptide. The NOV12 nucleic  
 CC acid and polypeptide are especially useful in therapeutic or  
 CC prophylactic applications for disorders of the neuro-olfactory system,  
 CC e.g. those induced by trauma, surgery and/or neoplastic disorders. The  
 CC DNA encoding the protein is useful in gene therapy for treating the  
 CC above conditions. Furthermore, the nucleic acids and polypeptides are  
 CC useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus  
 CC cancer, immune response, acquired immunodeficiency syndrome (AIDS),  
 CC asthma, Crohn's disease, multiple sclerosis or Albright hereditary  
 CC osteodystrophy. These are also useful in developing powerful assay  
 CC system for functional analysis of various human disorders, as well as  
 CC in diagnostic applications.  
 XX  
 XX Sequence 1014 BP: 219 A; 281 C; 216 G; 298 T; 0 other:  
 S0  
 Query Match 97.7%; Score 991; DB 22; Length 1014;  
 Best Local Similarity 99.8%; Pred. No. 4.3e-287;  
 Matches 1013; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

DB 361 TTTTCACCTTTTGTCTCAGACAGATGTCCTCCTGAGTGATGCTATGATCTGTAC 420  
 QY 420 GTGGCCATCTGCGACCCCTCCGATATTTGGCATCATGACCTGGAGCTGCATACC 479  
 DB 421 GTGGCCATCTGCGACCCCTCCGATATTTGGCATCATGACCTGGAGTGATGCATACC 480  
 QY 480 GTGGCCATCTGCGACCCCTCCGATATTTGGCATCATGACCTGGAGTGATGCATACC 539  
 DB 481 GTGGCCATCTGCGACCCCTCCGATATTTGGCATCATGACCTGGAGTGATGCATACC 540  
 QY 540 GTACCTTTACCTCTGTAGAGCCCGAATAATTATCACTTTTGTGAAATCTTGGC 599  
 DB 541 GTACCTTTACCTCTGTAGAGCCCGAATAATTATCACTTTTGTGAAATCTTGGC 599  
 QY 600 TGTTCCTCAACTTGTGCTGAGATACCATCATCAATGAGAACTGTGTGGCCGAGC 659  
 DB 600 TGTTCCTCAACTTGTGCTGAGATACCATCATCAATGAGAACTGTGTGGCCGAGC 659  
 QY 660 AATTTCGGCTGTGGGAGCCCTGTCCACAAATGTACTTTCATATATGTCATCTCTG 719  
 DB 660 AATTTCGGCTGTGGGAGCCCTGTCCACAAATGTACTTTCATATATGTCATCTCTG 719  
 QY 720 TGTCTATCTTCAATCCAAATCAAGGAAAGTTGAGAGAACTTGTGCACCTCTCTC 779  
 DB 720 TGTCTATCTTCAATCCAAATCAAGGAAAGTTGAGAGAACTTGTGCACCTCTCTC 779  
 QY 780 CCACCTCTGTGATGAGCTTTTATGCGACACACCAATATCATATGATGTTGAGACCCAG 839  
 DB 780 CCACCTCTGTGATGAGCTTTTATGCGACACACCAATATCATATGATGTTGAGACCCAG 839  
 QY 840 AATGGAACCCCAAGAGACAGAAATATCTGCTGTGTCACACCTTTAATTC 899  
 DB 840 AATGGAACCCCAAGAGACAGAAATATCTGCTGTGTCACACCTTTAATTC 899  
 QY 900 CATGCTCATCCCTTATGCTTATGAGTCTTGAAGTCAAGTGAAGTACTTTGAAGAG 959  
 DB 900 CATGCTCATCCCTTATGCTTATGAGTCTTGAAGTCAAGTGAAGTACTTTGAAGAG 959  
 QY 960 AGTGTGGAGATGAAAGGCTTTATGAAGAGATATGAGATGTGACGACAA 1014  
 DB 960 AGTGTGGAGATGAAAGGCTTTATGAAGAGATATGAGATGTGACGACAA 1014

RESULT 2  
 AAS09955  
 ID AAS09955 standard; DNA: 1012 BP.  
 XX  
 XX AAS09955;  
 XX  
 DE 24-OCT-2001 (first entry)  
 XX  
 XX DNA encoding human odorant receptor (OR)-like protein, NOV11.  
 KW Odorant receptor; human; OR: NOV11; therapeutic; neuro-olfactory system;  
 KW Llama; surgery; neoplastic disorder; gene therapy; adenocarcinoma; AIDS;  
 KW lymphoma; prostate cancer; uterus cancer; immune response; asthma; AIDS;  
 KW acquired immunodeficiency syndrome; Crohn's disease; multiple sclerosis;  
 KW Albright hereditary osteodystrophy; diagnostic; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX Key Location/Qualifiers  
 FT 1..53  
 FT 5'UTR  
 FT /\*tag= a  
 FT 54..986  
 FT CDS  
 FT /\*tag= b  
 FT /\*product= "Odorant receptor-like protein, NOV11"  
 FT 987..1012  
 FT /\*tag= c  
 XX  
 XX W0200151632-A2.  
 XX  
 XX 19-JUL-2001.  
 PD

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XX 16-JAN-2001; 2001WO-US01513.
PF
XX 13-JAN-2000; 2000US-0175989.
PR 14-JAN-2000; 2000US-0176134.
PR 25-JAN-2000; 2000US-0177839.
PR 26-JAN-2000; 2000US-0178191.
PR 26-JAN-2000; 2000US-0178227.
PR 14-JUL-2000; 2000US-0218324.
PR 24-JUL-2000; 2000US-0220253.
PR 25-JUL-2000; 2000US-0220590.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Padigaru M, Prayaga SK, Taupler RJ, Mishra V, Tchernev VT;
PI Spytek KA, Li L;
XX
XX WPI: 2001-451859/48.
DR P-PSDB: AA005141.
XX
XX New NOVX polypeptides and polynucleotides, useful for treating or
PT preventing disorders of the neuro-olfactory system, cancer and multiple
PT sclerosis -
XX
XX Claim 9: Page 52: 141pp; English.
XX
XX The sequence represents the coding sequence of human odorant receptor
CC (OR)-like protein, NOV1. The NOV1 polypeptide, nucleic acid and
CC antibody are useful as therapeutics, particularly in the manufacture of a
CC medicament for treating a syndrome associated with a human disease, which
CC includes a pathology associated with NOV1 polypeptide. The NOV1 nucleic
CC acid and polypeptide are especially useful in therapeutic or
CC prophylactic applications for disorders of the neuro-olfactory system,
CC e.g. those induced by trauma, surgery and/or neoplastic disorders. The
CC DNA encoding the protein is useful in gene therapy for treating the
CC above conditions. Furthermore, the nucleic acids and polypeptides are
CC useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus
CC cancer, immune response, acquired immunodeficiency syndrome (AIDS),
CC asthma, Crohn's disease, multiple sclerosis or Alzheimer hereditary
CC osteodystrophy. These are also useful in developing powerful assay
CC system for functional analysis of various human disorders, as well as
CC in diagnostic applications.
XX
XX Sequence 1012 Bp: 219 A; 281 C; 215 G; 297 T; 0 other;
SQ
Query Match 97.4%; Score 987.4; DB 22; Length 1012;
Best Local Similarity 99.7%; Pred. No. 5.2e-286;
Matches 1010; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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QY 361 TTTCACCTTTTGTGTGCAGAGATGTCCTCTGCTGAGTATGCTATGATCTGTACG 420
DB 361 TTTCACCTTTTGTGTGCAGAGATGTCCTCTGCTGAGTATGCTATGATCTGTACG 420
QY 421 TGGCATTGTGACACCCCTCCGATATTTGGCCATCATGACCGAGAGCTGCATACACC 480
DB 421 TGGCATTGTGACACCCCTCCGATATTTGGCCATCATGACCGAGAGCTGCATACACC 480
QY 481 TGGCGGTACTTCTGTGACACCATGTGAGTCTTTTATCTTGTATCTTGTGTACTTC 540
DB 481 TGGCGGTACTTCTGTGACACCATGTGAGTCTTTTATCTTGTATCTTGTGTACTTC 540
QY 541 TACCTTACCTCTCTGTAGAGCCCGAGAAATTTATCACTTTTGTGAAATCTTGACT 600
DB 541 TACCTTACCTCTCTGTAGAGCCCGAGAAATTTATCACTTTTGTGAAATCTTGACT 600
QY 601 GTTCGAAACTTGGCTGTGCAGATACCCACATGATGAGACATGATGTCTGGCCGAGCA 660
DB 601 GTTCGAAACTTGGCTGTGCAGATACCCACATGATGAGACATGATGTCTGGCCGAGCA 660
QY 661 ATTTCTGGGCTGTGGAGACCTTGTCCACAAATTTGATTTCAATATGATGATCTCTGT 720
DB 661 ATTTCTGGGCTGTGGAGACCTTGTCCACAAATTTGATTTCAATATGATGATCTCTGT 720
QY 721 GCTATCTTCAGATTCATCAAGGAAAGTTCAGAGAAAGCCCTTGACACCTGCTTCC 780
DB 721 GCTATCTTCAGATTCATCAAGGAAAGTTCAGAGAAAGCCCTTGACACCTGCTTCC 780
QY 781 CACCTCTGTGATTTGAGACTCTTTTATGAGCAGACCATATGATGATGAGACCCAGA 840
DB 781 CACCTCTGTGATTTGAGACTCTTTTATGAGCAGACCATATGATGATGAGACCCAGA 840
QY 841 TTGTGGAACCCCAAGAGAGAGAGAAATATCTCTCTGTTTACAGACCTTTTATGCC 900
DB 841 TTGTGGAACCCCAAGAGAGAGAGAAATATCTCTCTGTTTACAGACCTTTTATGCC 900
QY 901 ATGCTCAATCCCTTATCTGTAGTCTTATGAGACTGAGAGTGAAGTGAAGAGA 960
DB 901 ATGCTCAATCCCTTATCTGTAGTCTTATGAGACTGAGAGTGAAGTGAAGAGA 960
QY 961 GTGCTGGAGATGAAGAGGCTTTATGAAGATTTATGCAATTTGACAGCA 1013
DB 961 GTGCTGGAGATGAAGAGGCTTTATGAAGATTTATGCAATTTGACAGCA 1013

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RESULT 3  
AAS09946  
ID AAS09946 standard; DNA: 1040 Bp.  
XX  
AC AAS09946;  
XX  
DT 24-OCT-2001 (first entry)  
XX  
DE DNA encoding human odorant receptor (OR)-like protein, NOV2.  
XX  
KW Odorant receptor: human; OR; NOV2; therapeutic: neuro-olfactory system;  
KW trauma: surgery; neoplastic disorder: gene therapy; adenocarcinoma;  
KW lymphoma; prostate cancer; uterus cancer; immune response; asthma; AIDS;  
KW acquired immunodeficiency syndrome; Crohn's disease; multiple sclerosis;  
KW Alzhright hereditary osteodystrophy; diagnostic: ds.  
XX  
OS Homo sapiens.  
XX  
XX Key Location/Qualifiers  
XX FT 1..81  
XX FT 5'UTR  
XX FT 82..1014  
XX FT CDS  
XX FT /\*tag- b  
XX FT /\*product= "Odorant receptor-like protein, NOV2"  
XX FT 1015..1040  
XX FT /\*tag- c  
XX PN W0200151632-A2.

XX 19-JUL-2001.  
 XX 16-JAN-2001; 2001WO-US01513.  
 PF 13-JAN-2000; 2000US-0175989.  
 XX 14-JAN-2000; 2000US-0176134.  
 PR 25-JAN-2000; 2000US-0177839.  
 PR 26-JAN-2000; 2000US-0178191.  
 PR 26-JAN-2000; 2000US-0178227.  
 PR 14-JUL-2000; 2000US-0218324.  
 PR 24-JUL-2000; 2000US-0220253.  
 PR 25-JUL-2000; 2000US-0220590.  
 XX (CURA-) CURAGEN CORP.  
 XX Padigaru M, Prayaga SK, Taupler RJ, Mishra V, Tchernev VT;  
 PI Spytek KA, Li L;  
 XX WPI: 2001-451859/48.  
 DR P-PSDB; AA005132.  
 XX New NOVX polypeptides and polynucleotides, useful for treating or  
 PT preventing disorders of the neuro-olfactory system, cancer and multiple  
 PT sclerosis -  
 XX Claim 9; page 15; 141pp; English.  
 PS The sequence represents the coding sequence of human odorant receptor  
 CC (OR)-like protein, NOV2. The NOV2 polypeptide, nucleic acid and antibody  
 CC are useful as therapeutics, particularly in the manufacture of a  
 CC medicament for treating a syndrome associated with a human disease, which  
 CC includes a pathology associated with NOV2 polypeptide. The NOVX nucleic  
 CC acid and polypeptide are especially useful in therapeutic or  
 CC prophylactic applications for disorders of the neuro-olfactory system,  
 CC e.g. those induced by trauma, surgery and/or neoplastic disorders. The  
 CC DNA encoding the protein is useful in gene therapy for treating the  
 CC above conditions. Furthermore, the nucleic acids and polypeptides are  
 CC useful in treating adenocarcinoma, lymphoma, prostate cancer, uterus  
 CC cancer, immune response, acquired immunodeficiency syndrome (AIDS),  
 CC asthma, Crohn's disease, multiple sclerosis or Alzheimers hereditary  
 CC osteodystrophy. These are also useful in developing powerful assay  
 CC system for functional analysis of various human disorders, as well as  
 CC in diagnostic applications.  
 CC  
 SQ Sequence 1040 BP; 229 A; 285 C; 221 G; 305 T; 0 other;  
 Query Match 97.0%; Score 983.6; DB 22; Length 1040;  
 Best Local Similarity 99.4%; Pred. No. 7.3e-285;  
 Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

Db 328 AACCTCGCATCCAGCCAGCCCATCTCTTGGGCGCCGATGACAGACCTTCTG 387  
 Oy 360 TTTTCCACCTTTCTGTGACAGAAATGTCCTCTGCTGTGTGATGCTATGATCTGTAC 419  
 Db 388 TTTTCCACCTTTCTGTGACAGAAATGTCCTCTGCTGTGTGATGCTATGATCTGTAC 447  
 Oy 420 GTGGCCATCTGACACCCCTCCGATATTTGGCCATCATGACCTGGAGAGTGTGATGAC 479  
 Db 448 GTGGCCATCTGACACCCCTCCGATATTTGGCCATCATGACCTGGAGAGTGTGATGAC 507  
 Oy 480 CTGCGGTGACTTCTGTGACACCTGACCTGATTTATCTGATTCATCTGTGTACT 539  
 Db 508 CTGCGGTGACTTCTGTGACACCTGACCTGATTTATCTGATTCATCTGTGTACT 567  
 Oy 540 CTACCTTTACCTTCTGTAGGCCCGAGAAATTTATCATCTTTTGTGAAATCTTGGC 599  
 Db 568 CTACCTTTACCTTCTGTAGGCCCGAGAAATTTATCATCTTTTGTGAAATCTTGGC 626  
 Oy 600 TGTTCCTAAACTTGCTGTGACAGATACCCATCATGAGAAAGATGCTTGGCCGAGC 659  
 Db 627 TGTTCCTAAACTTGCTGTGACAGATACCCATCATGAGAAAGATGCTTGGCCGAGC 686  
 Oy 660 AATTCTGGGCTGTGGAGCCCTTGTCCACATTTGATGTTCAATPATGTCATCTGCTG 719  
 Db 687 AATTCTGGGCTGTGGAGCCCTTGTCCACATTTGATGTTCAATPATGTCATCTGCTG 746  
 Oy 720 TGTTCCTAAACTTGCTGTGAGGCCCGAGAAATTTATCATCTTTTGTGAAATCTTGGC 779  
 Db 747 TGTTCCTAAACTTGCTGTGAGGCCCGAGAAATTTATCATCTTTTGTGAAATCTTGGC 806  
 Oy 780 CCACCTTGTGTGATTTGAGACTCTTTTATGAGCAGCCATTTATCATGATGTTGAGCCAG 839  
 Db 807 CCACCTTGTGTGATTTGAGACTCTTTTATGAGCAGCCATTTATCATGATGTTGAGCCAG 866  
 Oy 840 ATATGGAAACCCCAAGAGCAGAAAGAAATATCTCTGTGTTTACACACCTCTTTAATCC 899  
 Db 867 ATATGGAAACCCCAAGAGCAGAAAGAAATATCTCTGTGTTTACACACCTCTTTAATCC 926  
 Oy 900 CATGCTCAATCCCTTATCTGTGTTGAGAACTGAGAAAGTGAAGTACTTTGAAGAG 959  
 Db 927 CATGCTCAATCCCTTATCTGTGTTGAGAACTGAGAAAGTGAAGTACTTTGAAGAG 986  
 Oy 960 AGTGTGTGAGATGAGAAAGGCTTTATGAAAGATATGAGCATTTGTGACTGACA 1013  
 Db 987 AGTGTGTGAGATGAGAAAGGCTTTATGAAAGATATGAGCATTTGTGACTGACA 1040  
 RESULT 4  
 ABA09073/c  
 ID ABA09073 standard; cDNA: 1315 BP.  
 XX ABA09073:  
 DT 11-JAN-2002 (first entry)  
 XX Human olfactory receptor homologue-encoding cDNA, SEQ ID NO:849.  
 DE Human: cytokine; cell proliferation; cell differentiation; growth factor;  
 KW haematopoiesis regulation; tissue growth; immunomodulation; activin;  
 KW inhibin; chemokinesis; chemokinesis; thrombopoiesis; oncogenesis;  
 KW myeloid cell disorder; lymphoid cell disorder; asplenia; arthritis;  
 KW chronic inflammatory condition; proliferative retinopathy;  
 KW atherosclerosis; coronary heart disease; arterial ischaemia;  
 KW bone disorder; osteoporosis; wound healing; infection; immune disorder;  
 KW tissue regeneration; wound healing; infection; immune disorder;  
 KW cell culture; drug screening; gene therapy; antiinflammation;  
 KW antiasthmatic; antiarthritic; haemostatic; antiarteriosclerotic;  
 KW cytoskeletal; osteopathic; vasotropic; cardiant; virucide; antibacterial;  
 KW antifungal; vulnary; antilucer; ss.  
 XX Homo sapiens.  
 OS

PN W0200157188-A2.  
XX 09-AUG-2001.  
PD 05-FEB-2001; 2001MO-US03800.  
XX 03-FEB-2000; 2000US-0496914.  
PR 27-APR-2000; 2000US-0560875.  
XX (HSE-) HYSEQ INC.  
PA Tang YT, Liu C, Dymnac RT;  
PI WPI; 2001-457740/49.  
DR P-PSDB; ABB11829.  
XX  
PT Human proteins and DNA encoding sequences useful for preventing,  
PT treating or ameliorating a medical condition in a mammalian subject  
PT e.g. arthritis and cancer -  
PS Claim 1; Page 753; 1963pp; English.  
XX  
XX Sequences ABB10981-ABB12330 represent 1350 novel human polypeptides, and  
CC sequences ABA08225-ABA09574 represent nucleic acids encoding them. The  
CC invention also relates to vectors and recombinant host cells comprising a  
CC nucleotide of the invention, methods of producing the novel polypeptides,  
CC antibodies against the polypeptides, methods of detecting the nucleotides  
CC or polypeptides in a sample, and methods of identifying compounds which  
CC bind to polypeptides of the invention. Although novel, many of the  
CC polypeptides of the invention have homology to known proteins, thereby  
CC giving an insight into their probable biological activities, and hence  
CC potential therapeutic applications. The polypeptides of the invention may  
CC have various activities, including cytokine, cell proliferation or cell  
CC differentiation activities; stem cell growth factor activity;  
CC haematopoietic regulatory activity; tissue growth activity;  
CC immunomodulatory activity; activin- or inhibin-related activities;  
CC chemotactic or chemokinetic activities; haemostatic, thrombotic or  
CC thrombolytic activities; receptor or ligand activities; or may be  
CC involved in oncogenesis, cancer cell proliferation or metastasis.  
CC Depending on their biological activities, polypeptides and nucleotides of  
CC the invention are useful for preventing, treating or ameliorating medical  
CC conditions, e.g., by protein or gene therapy. Such conditions include  
CC cancers, haematopoietic disorders (e.g., myeloid or lymphoid cell  
CC disorders), chronic inflammatory conditions (e.g., asthma or arthritis),  
CC proliferative retinopathy, atherosclerosis, coronary heart disease,  
CC arterial ischaemia, bone disorders (e.g., osteoporosis), and abnormal  
CC vascular growth. Polypeptides involved with tissue regeneration and  
CC repair (or nucleic acids encoding them) may be used to promote wound  
CC healing (e.g., of burns, incisions and ulcers), while those with  
CC immunomodulatory activities may be used in the treatment of viral,  
CC bacterial and fungal infections in addition to immune disorders.  
CC Polypeptides with growth factor activity may be used in cell cultures to  
CC promote cell growth. For example, such polypeptides may be used to  
CC manipulate stem cells in culture to give rise to neuroepithelial cells  
CC that can be used to augment or replace cells damaged by illness,  
CC autoimmune disease or accidental damage. The polypeptides and nucleotides  
CC may also be used in the diagnosis of the above conditions, and in drug  
CC screening techniques. The present sequence represents a cDNA encoding a  
CC novel human polypeptide of the invention.  
XX  
SQ Sequence 1315 BP; 380 A; 281 C; 360 G; 294 T; 0 other;

Query Match 92.9%; Score 942; DB 22; Length 1315;  
Best Local Similarity 99.6%; Pred. No. 2,6e-272;  
Matches 986; Conservative 0; Mismatches 0; Indels 4; Gaps 4;

QY 1 TAAACACTTCCCTAAACCATGAGCATTAATGATTTCTCTGTCATGAGGATGAGG 60  
DB 989 TAAACACTTCCCTAAACCATGAGCATTAATGATTTCTCTGTCATGAGGATGAGG 930  
QY 61 GACATATTAACATCCATCAGAGAGTTCCTCTACTGAGATTTCCCTTGCCCAAGATT 120  
DB 929 GACATATTAACATCCATCAGAGAGTTCCTCTACTGAGATTTCCCTTGCCCAAGATT 870

QY 121 CAGATGCTCCCTTTGGGCTCTTCCTGTTCTACAGTTCACCCCTGCTGGAGAGG 180  
DB 869 CAGATGCTCCCTTTGGGCTCTTCCTGTTCTACAGTTCACCCCTGCTGGAGAGG 810  
QY 181 ACCATGCTGGGGCTCATCTGACGACGACGACGACGACGACGACGACGACGACG 239  
DB 809 ACCATGCTGGGGCTCATCTGACGACGACGACGACGACGACGACGACGACGACG 750  
QY 240 TCACACT- GGGGCTGCTGACATTCGCTACAGGCTGCTGACAGGCTGCTGCTG 298  
DB 749 TCACACTGAGGCTGCTGACATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 690  
QY 299 GAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 358  
DB 689 GAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 630  
QY 359 GTTTCACCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 418  
DB 629 GTTTCACCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 570  
QY 419 CGT-GGCCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 477  
DB 569 CGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 510  
QY 478 CCGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 537  
DB 509 CCGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 450  
QY 538 TTCTACCTTACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 597  
DB 449 TTCTACCTTACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 391  
QY 598 GCTTTCTCAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 657  
DB 390 GCTTTCTCAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 331  
QY 658 GCAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 717  
DB 330 GCAATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 271  
QY 718 TGTCTATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 777  
DB 270 TGTCTATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 211  
QY 778 TCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 837  
DB 210 TCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 151  
QY 838 AGATATGGAACCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 897  
DB 150 AGATATGGAACCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 91  
QY 898 CCCATGCTCAATCCCTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 957  
DB 90 CCCATGCTCAATCCCTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 31  
QY 958 AGATGCTGAG 987  
DB 30 AGATGCTGAG 1

RESULT 5  
AAF58613  
ID AAF58613 standard; cDNA; 974 BP.  
XX AAF58613;  
XX 24-APR-2001 (first entry)  
DE Human RBCAP polynucleotide, SEQ ID NO: 41.  
XX Human; RBCAP; receptors and associated proteins; cerebroprotective;

KW nootropic; neuroprotective; anticonvulsant; antiparkinsonian; anti-HIV;  
 KW antidiabetic; immunostimulant; immunomodulator; antiinflammatory;  
 KW antithyroid; immunosuppressive; nephrotoxic; antipruritic; thyromimetic;  
 KW cytostatic; antibacterial; virucide; fungicide; protozoacide;  
 KW antiteriosclerotic; hepatotropic; gene therapy; infection; cancer; ss.

OS Homo sapiens.

PN WO200107612-A2.

PN 01-FEB-2001.

PF 21-JUL-2000; 2000WO-US20035.

PR 21-JUL-1999; 99US-0145232.

PR 07-OCT-1999; 99US-0158578.

PR 12-NOV-1999; 99US-0165192.

PA (INCY-) INCYTE GENOMICS INC.

PI Au-Young J, Bandman O, Tang YT, Yue H, Azimzai Y, Burford N;

PI Baughn MR, Lu DM, Hillman JL, Patterson C, Lal P;

XX WPI: 2001-16854/17.

DR P-PSDB: AAB68889.

XX Novel receptors and associated proteins for diagnosis and treatment of

PT neurological disorders, immunological disorders including autoimmune/

PT inflammatory disorders and cell proliferative disorders such as cancer

PT

XX Claim 5: Page 125-126; 128pp; English.

XX The present sequence encodes a human RECAP (receptors and associated  
 CC proteins) polypeptide. RECAP polynucleotides and polypeptides are useful  
 CC in the diagnosis, treatment and prevention of neurological disorders  
 CC such as stroke, Alzheimer's disease, Pick's disease, Huntington's  
 CC lateral sclerosis, multiple sclerosis, bacterial and viral meningitis,  
 CC CJD (Creutzfeldt-Jakob disease), GSS (Gerstmann-Strausler-Scheinker  
 CC syndrome); immunological disorders, including autoimmune/inflammatory  
 CC disorders such as AIDS, Digeorge's syndrome, severe combined  
 CC immunodeficiency disease (SCID), Chediak-Higashi syndrome, Cushing's  
 CC disease, Addison's disease, autoimmune thyroiditis, Crohn's disease,  
 CC diabetes mellitus, good pasture's syndrome, gout, Grave's diseases,  
 CC Hashimoto's thyroiditis, Sjogren's syndrome, Werner's syndrome, viral,  
 CC bacterial, fungal, parasitic, protozoal, and helminthic infections; and  
 CC cell proliferation disorders such as arteriosclerosis, atherosclerosis,  
 CC cirrhosis, hepatitis and cancer.

SQ Sequence 974 BP; 206 A; 270 C; 214 G; 284 T; 0 other:

Query Match 92.3%; Score 936; DB 22; Length 974;

Best Local Similarity 99.8%; Pred. No. 1.4e-270;

Matches 958; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

OY 55 ATGGGGGACAAATATACATCCATCCACAGAGTCCCTACCTACCTGGATTCGCCGTGGGCCA 114  
 DB 1 ATGGGGGACAAATATACATCCATCCACAGAGTCCCTACCTACCTGGATTCGCCGTGGGCCA 60  
 OY 115 AGGATTCAGATGCTCTCTTTGGGCTCTCTCCCTGTTTACGCTTACACCTGCTGGGG 174  
 DB 61 AGGATTCAGATGCTCTCTTTGGGCTCTCTCCCTGTTTACGCTTACACCTGCTGGGG 120  
 OY 175 AAGGGACCATCTGGGGCTCATCTACAGAGTCCAGAGTCCAGAGTCCAGAGTCCAGAGTCC 233  
 DB 121 AAGGGACCATCTGGGGCTCATCTACAGAGTCCAGAGTCCAGAGTCCAGAGTCCAGAGTCC 180  
 OY 234 TTCCCTCTACACCTGGGCTGTCAGACATGCGCTACGCTGCAACAGGTTGCCCGGATG 293  
 DB 181 TTCCCTCTACACCTGGGCTGTCAGACATGCGCTACGCTGCAACAGGTTGCCCGGATG 240  
 OY 294 CTGGTGAACCTCTGCATCCAGCCCAAGCCCATCTCTTTGGGGCGCGCATGATGACAGCC 353

DB 241 CTGGTGAACCTCTGCATCCAGCCCAAGCCCATCTCTTTGGGGCGCGCATGATGACAGCC 300  
 OY 354 TTTCCTGTTTCCACTTTTGGCTGTCACAGAAATGCTCCCTGGTGGTATGCTATGAT 413  
 DB 301 TTTCCTGTTTCCACTTTTGGCTGTCACAGAAATGCTCCCTGGTGGTATGCTATGAT 360  
 OY 414 CTGTACGTGGCCATCTGCCACCCCTCCGATATTTTGGCCATCATACCTGGAGAGTCCG 473  
 DB 361 CTGTACGTGGCCATCTGCCACCCCTCCGATATTTTGGCCATCATACCTGGAGAGTCCG 420  
 OY 474 ATACCCCTGGGCTGCTGCTGACACACTGAGTCTTTATCTTATCTGATCTTGG 533  
 DB 421 ATACCCCTGGGCTGCTGCTGACACACTGAGTCTTTATCTTATCTGATCTTGG 480  
 OY 534 TTACTTCTACCTTTACCTCTTCTGTAGGCCCCGAGAAATTTATACCTTTTGTGAAT 593  
 DB 481 TTACTTCTACCTTTACCTCTTCTGTAGGCCCCGAGAAATTTATACCTTTTGTGAAT 539  
 OY 594 CTGGGCTGTTCCAAACTTGCCTGTGACATACCCATCAATGAGAACATGCTTGGC 653  
 DB 540 CTGGGCTGTTCCAAACTTGCCTGTGACATACCCATCAATGAGAACATGCTTGGC 599  
 OY 654 CGGAGCAATTTTGGGCTGTGGGACCTTGTCCAAATTTGATTTATATATGTCAT 713  
 DB 600 CGGAGCAATTTTGGGCTGTGGGACCTTGTCCAAATTTGATTTATATATGTCAT 659  
 OY 714 CCTCTGTGTATCTTCCAGATCCATCAAGGAGTTTCAGAGAAAGCTTCTGCACCTG 773  
 DB 660 CCTCTGTGTATCTTCCAGATCCATCAAGGAGTTTCAGAGAAAGCTTCTGCACCTG 719  
 OY 774 CTTTCCGCAACCTCTGTGTGTGTGATGAGTCTTTTATGACAGCCATATCATGATGTTG 833  
 DB 720 CTTTCCGCAACCTCTGTGTGTGTGATGAGTCTTTTATGACAGCCATATCATGATGTTG 779  
 OY 834 ACCCAGATATGGAACCCCAAGGACAGAGAAATATCTCTCTGTTTACAGCCTCTT 893  
 DB 780 ACCCAGATATGGAACCCCAAGGACAGAGAAATATCTCTCTGTTTACAGCCTCTT 839  
 OY 894 TAATCCATGCTCAATCCCTATCTGTAGTCTTAGAAGTCTGAGAAAGTGAAGTACTTT 953  
 DB 840 TAATCCATGCTCAATCCCTATCTGTAGTCTTAGAAGTCTGAGAAAGTGAAGTACTTT 899  
 OY 954 GAGAGAGTCTGGAGTAAAGAGGCTTATGAAAGGTTTGGCATGTGATGACAGCA 1013  
 DB 900 GAGAGAGTCTGGAGTAAAGAGGCTTATGAAAGGTTTATGAAAGGTTTATGATGTGATGACAGCA 959

RESULT 6  
 AAH32366  
 ID AAH32366 standard; DNA: 930 BP.  
 AC AAH32366:  
 XX 30-JUL-2001 (first entry)  
 DT  
 XX  
 DE Human olfactory receptor polynucleotide, SEQ ID NO: 939.  
 XX  
 KW Human; olfactory receptor; OR; primary scent determination;  
 KW secondary scent determination; polypeptide library; odour receptor;  
 KW scent profile; scent fingerprint; scent representation; ds.  
 OS Homo sapiens.  
 XX WO200127158-A2.  
 PN 19-APR-2001.  
 PD  
 XX  
 PF 06-OCT-2000; 2000WO-US27582.  
 PR 08-OCT-1999; 99US-0158615.  
 PR 24-FEB-2000; 2000US-0184809.  
 XX



PA (DIGI-) DIGISCENTS.  
 PA (YEDA ) YEDA RES & DEV CO LTD.

PI Bellenson J, Smith D, Lancet D, Glusman G, Fuchs T, Yanai I;  
 DR WPI; 2001-290713/30.

XX New polynucleotides which encode polypeptides involved in olfactory  
 PT sensation for identifying olfactory agonists and antagonists  
 XX  
 PS Claim 8: Page 554; 1857pp; English.

XX The present sequence is one of a number of isolated polynucleotides  
 CC which encode polypeptides involved in olfactory sensation. The  
 CC polynucleotides can be used in screening for olfactory agonists and  
 CC antagonists. The methods allow for the determination of primary  
 CC scents and the identification of the odour receptors used to detect  
 CC these primary scents. The methods also enable determination of  
 CC secondary scents and the identification of combinations of odour  
 CC receptors that are involved in detecting such secondary scents.  
 CC This enables the construction of a scent representation (also called  
 CC a scent fingerprint or scent profile), which may be used to re-create  
 CC and edit scents. Libraries of olfactory receptors are useful for  
 CC determining the interaction pattern of a composition with the receptors.  
 CC and can be used for determining differences in the olfactory faculties  
 CC of different individuals.

XX Sequence 930 BP; 192 A; 266 C; 201 G; 271 T; 0 other;

Query Match 89.3%; Score 905.4; DB 22; Length 930;  
 Best local similarity 99.7%; Pred. No. 2.1e-261;  
 Matches 928; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

OY 55 ATGGGGGAAATTAACATCCATCAGAGATTCCTCTACTGGATTTCCTGGCCCA 114  
 DB 1 ATGGGGGAAATTAACATCCATCAGAGATTCCTCTACTGGATTTCCTGGCCCA 60  
 OY 115 AGGATTCAGATGCTCCTCTTTGGGCTCTCCCTGTTCTACGCTTCACCTCTGGG 174  
 DB 61 AGGATTCAGATGCTCCTCTTTGGGCTCTCCCTGTTCTACGCTTCACCTCTGGG 120  
 OY 175 AACGGAGCATCTGGGGCTCATCTCAGTCACTGACATGACAGCCGCC-CTACTTC 233  
 DB 121 AACGGAGCATCTGGGGCTCATCTCAGTCACTGACATGACAGCCGCCCATCTACTTC 180  
 OY 234 TTCTCTCTCAGCTGCGGCTCTGACATCCGCTACGCTCAACACAGCGTCCCGGATG 293  
 DB 181 TTCTCTCTCAGCTGCGGCTCTGACATCCGCTACGCTCAACACAGCGTCCCGGATG 240  
 OY 294 CTGGTGAACCTCTGCTGACAGCAAGCCATCTCTTTGGGGCCGATATGACAGCC 353  
 DB 241 CTGGTGAACCTCTGCTGACAGCAAGCCATCTCTTTGGGGCCGATATGACAGCC 300  
 OY 354 TTTCTGTTTCCACTTTTCTGTACAGAAATGCTCTCTGTTGGTATGCTCTATGAT 413  
 DB 301 TTTCTGTTTCCACTTTTCTGTACAGAAATGCTCTCTGTTGGTATGCTCTATGAT 360  
 OY 414 CTGTAGGAGCATCTGCCACCCCTCCGATATTTGGCATCATGACCTGAGAGTGGC 473  
 DB 361 CTGTAGGAGCATCTGCCACCCCTCCGATATTTGGCATCATGACCTGAGAGTGGC 420  
 OY 474 ATCACCCTCGGCTGCTCTGACCACTGGAGTCTTTATCTCTTATCATCTCTGTG 533  
 DB 421 ATCACCCTCGGCTGCTCTGACCACTGGAGTCTTTATCTCTTATCATCTCTGTG 480  
 OY 534 TTAATCTTACCTTTACCTCTCTGTAGGCCCAAAATTTATCACTTTTGTGAAT 593  
 DB 481 TTAATCTTACCTTTACCTCTCTGTAGGCCCAAAATTTATCACTTTTGTGAAT 539  
 OY 594 CTGGGTGTTCAAACTGCTGTGAGATACCCATCATGATGAGAAATGATGCTGGC 653  
 DB 540 CTGGGTGTTCAAACTGCTGTGAGATACCCATCATGATGAGAAATGATGCTGGC 599

OY 654 CGAGCAATTTCTGGGCTGTGGAGACCTTGTGCCAAATGTACTTATATATGTCAT 713  
 DB 600 CGAGCAATTTCTGGGCTGTGGAGACCTTGTGCCAAATGTACTTATATATGTCAT 659  
 OY 714 CCTGTGTCTATCTTCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 773  
 DB 660 CCTGTGTCTATCTTCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 719  
 OY 774 CTCTTCCACCTCTG 833  
 DB 720 CTCTTCCACCTCTG 779  
 OY 834 ACCAGATATGGAACCCCAAGAGACAGAGAAATATCTCTGTTTACACCTCTT 893  
 DB 780 ACCAGATATGGAACCCCAAGAGACAGAGAAATATCTCTGTTTACACCTCTT 839  
 OY 894 TATCCCATGCTCATCTCCCTTATCTGTAGTCTTGTAGCACTCAATGAGAAATCTTT 953  
 DB 840 TATCCCATGCTCATCTCCCTTATCTGTAGTCTTGTAGCACTCAATGAGAAATCTTT 899  
 OY 954 GAAGAGATGCTGTGGAGTAGAAGAGGCTTTA 984  
 DB 900 GAAGAGATGCTGTGGAGTAGAAGAGGCTTTA 930

# RESULT 7

ABK65141  
 ID ABK65141 standard; cDNA; 933 BP.

XX ABK65141;

AC 02-JUL-2002 (first entry)

DE CDNA encoding human PHOR1-F5D6.

XX Human; PHOR1-A11; PHOR1-F5D6; prostate cancer; cytostatic; gene; ss.

XX Homo sapiens.

OS WO200214501-A2.

PD 21-FEB-2002.

PE 17-AUG-2001; 2001WO-US25862.

PR 17-AUG-2000; 2000US-226241P.

XX (AGEN-) AGENSYS INC.

XX Hubert RS, Raitano AB, Faris M, Challita-Eld PM, Ge W;  
 PI Jakobovits A;

XX WPI; 2002-269193/31.

DR P-PSDB; AAU91543.

XX Monitoring PHOR1-A11/PHOR1-F5D6 gene products for monitoring presence  
 PT of cancer in subject, by determining status of PHOR1-A11/PHOR1-F5D6  
 PT gene products in tissue sample from subject and comparing it to normal  
 sample

XX Claim 43; Fig 2b; 250pp; English.

XX The present invention relates to the isolation of novel human genes  
 CC designated PHOR1-A11 and PHOR1-F5D6 and their encoded proteins. The  
 CC gene encoding PHOR1-A11 maps to chromosome 1q33, and the gene encoding  
 CC PHOR1-F5D6 maps to chromosome 7q33-q35. The PHOR1-A11 and PHOR1-F5D6  
 CC polynucleotide and polypeptide sequences are useful in diagnostic and  
 CC therapeutic methods, and compositions are useful for inhibiting the growth of  
 CC prostate cancer. The sequences are useful for inhibiting the growth of  
 CC cancer cells that express PHOR1-A11 or PHOR1-F5D6 and for treating  
 CC cancer. The PHOR1-A11 or PHOR1-F5D6 polypeptide or a fragment thereof  
 CC can be used to elicit an immune response. The present sequence encodes  
 CC human PHOR1-F5D6.

XX Sequence 933 BP; 194 A; 265 C; 203 G; 271 T; 0 other;  
SQ

Query Match 89.1%; Score 903.6; DB 24; Length 933;  
Best Local Similarity 99.4%; Pred. No. 7.4e-261;  
Matches 928; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 55 ATGGGGACAATATACATCCATCCACAGAGTCCCTCCTACCTGGGATTTCCGGTGGCCCA 114  
DB 1 ATGGGACACATATACATCCATCCACAGAGTCCCTCCTACCTGGGATTTCCGGTGGCCCA 60  
QY 115 AGAATTCAGATGCTCCTCTTTGGGCTCTCTCCCTGCTTACGCTTTCACCTGCTGGGG 174  
DB 61 AGATTTCAGATGCTCCTCTTTGGGCTCTCTCCCTGCTTACGCTTTCACCTGCTGGGG 120  
QY 175 AACGGACATACCTGGGGCTCATCTGACATGACATCCAGACTCAGCCGCC-CTGACTTC 233  
DB 121 AACGGACATACCTGGGGCTCATCTGACATGACATCCAGACTCAGCCGCCATGACTTC 180  
QY 234 TTCTCTCACACCTGGGCTGCTGACATGCTGCTACGCTGACAGACGGTGGCGGATG 293  
DB 181 TTCTCTCACACCTGGGCTGCTGACATGCTGCTACGCTGACAGACGGTGGCGGATG 240  
QY 294 CTGGTGAACCTCTGCTGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 353  
DB 241 CTGGTGAACCTCTGCTGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300  
QY 354 TTCTCTGCTTTCACCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 413  
DB 301 TTCTCTGCTTTCACCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360  
QY 414 CTGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 473  
DB 361 CTGAGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
QY 474 ATACCCCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 533  
DB 421 ATACCCCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480  
QY 534 TTACTCTTACCTTTTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 593  
DB 481 TTACTCTTACCTTTTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 539  
QY 594 CTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 653  
DB 540 CTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 599  
QY 654 CGGAGCAATTTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 713  
DB 600 CGGAGCAATTTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 659  
QY 714 CTTCTGTGTATCTTCAATCCATCAAGGAGTTTCAGAGAAAGCTTCTGCACTG 773  
DB 660 CTTCTGTGTATCTTCAATCCATCAAGGAGTTTCAGAGAAAGCTTCTGCACTG 719  
QY 774 CTTCTGTGTATCTTGTATGATGATGATGATGATGATGATGATGATGATGATGATG 833  
DB 720 CTTCTGTGTATCTTGTATGATGATGATGATGATGATGATGATGATGATGATGATG 779  
QY 834 ACCAGATATGGAACCCCAAGGAGAGAAATATCTCCGCTGCTTTCACAGCTCTT 893  
DB 780 ACCAGATATGGAACCCCAAGGAGAGAAATATCTCCGCTGCTTTCACAGCTCTT 839  
QY 894 TAATCCATGCTCATTCCTCTTATCTGTAATGTAATGTAATGTAATGTAATGTAATG 953  
DB 840 TAATCCATGCTCATTCCTCTTATCTGTAATGTAATGTAATGTAATGTAATGTAATG 899  
QY 954 GAAGAGAGTCTGGAG 987  
DB 900 GAAGAGAGTCTGGAG 933

RESULT 8

AAH31617  
ID AAH31617 standard; DNA; 930 BP.

XX  
AC AAH31617;  
DT 30-JUL-2001 (first entry)  
XX

DE Human olfactory receptor polynucleotide, SEQ ID NO: 190.

KW Human: olfactory receptor; OR: primary scent determination;  
KW secondary scent determination; polypeptide library; odour receptor;  
KW scent profile; scent fingerprint; scent representation; ds.

OS Homo sapiens.

PN WC020127158-A2.

PD 19-APR-2001.

PF 06-OCT-2000: 2000MO-US27582.

PR 08-OCT-1999; 99US-0158615.

PR 24-FEB-2000; 2000US-0184809.

PA (DIGI-) DIGISENTS.

PA (YEDA) YEDA RES & DEV CO LTD.

PI Bellenson J, Smith D, Lancet D, Giusman G, Fuchs T, Yanai I;  
XX WPI; 2001-290713/30.

PT New polynucleotides which encode polypeptides involved in olfactory  
XX sensation for identifying olfactory agonists and antagonists -

PS Claim 8; page 251; 1857pp; English.

XX The present sequence is one of a number of isolated polynucleotides  
CC which encode polypeptides involved in olfactory sensation. The  
CC polynucleotides can be used in screening for olfactory agonists and  
CC antagonists. The methods allow for the determination of primary  
CC scents and the identification of the odour receptors used to detect  
CC these primary scents. The methods also enable determination of  
CC secondary scents and the identification of combinations of odour  
CC receptors that are involved in detecting such secondary scents.  
CC This enables the construction of a scent representation (also called  
CC a scent fingerprint or scent profile), which may be used to re-create  
CC and edit scents. Libraries of olfactory receptors are useful for  
CC determining the interaction pattern of a composition with the receptors,  
CC and can be used for determining differences in the olfactory faculties  
CC of different individuals.

SQ Sequence 930 BP; 193 A; 265 C; 202 G; 270 T; 0 other;

Query Match 88.8%; Score 900.6; DB 22; Length 930;  
Best Local Similarity 99.4%; Pred. No. 5.9e-260;  
Matches 925; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 55 ATGGGGACAATATACATCCATCCACAGAGTCCCTCCTACCTGGGATTTCCGGTGGCCCA 114

DB 1 ATGGGACACATATACATCCATCCACAGAGTCCCTCCTACCTGGGATTTCCGGTGGCCCA 60

QY 115 AGAATTCAGATGCTCCTTTGGGCTCTCTCCCTGCTTACGCTTTCACCTGCTGGGG 174

DB 61 AGATTTCAGATGCTCCTTTGGGCTCTCTCCCTGCTTACGCTTTCACCTGCTGGGG 120

QY 175 AACGGACATACCTGGGGCTCATCTGACATGACATCCAGACTCAGCCGCC-CTGACTTC 233

DB 121 AACGGACATACCTGGGGCTCATCTGACATGACATCCAGACTCAGCCGCCATGACTTC 180

QY 234 TTCTCTCACACCTGGGCTGCTGACATGCTGCTACGCTGACAGACGGTGGCGGATG 293

DB 181 TTCTCTCACACCTGGGCTGCTGACATGCTGCTACGCTGACAGACGGTGGCGGATG 240



QY 654 CGAGCAATTTCTGGGCTGGTGGGACCCCTGTCACAAATGTTAGTTATATATGTCAT 713  
 DB 600 CGAGCAATTTCTGGGCTGGTGGGACCCCTGTCACAAATGTTATATATGTCAT 659  
 QY 714 CCTGTGCTATCTTCAGATCCAAATCAAGAGGAACTTCCAGGAAAGCCCTTCGACCTG 773  
 DB 660 CCTGTGCTATCTTCAGATCCAAATCAAGAGGAACTTCCAGGAAAGCCCTTCGACCTG 719  
 QY 774 CTCTCTCCACCTCTGTGTGATTTGAGACTCTTATGTCAGACGCAATTCATGTAATGTTGG 833  
 DB 720 CTCTCTCCACCTCTGTGTGATTTGAGACTCTTATGTCAGACGCAATTCATGTAATGTTGG 779  
 QY 834 ACCCAATATGGAAGCCCAAGAGGAGAGAAATATCTCTGCTGCTTCACAGCCCTT 893  
 DB 780 ACCCAATATGGAAGCCCAAGAGGAGAGAAATATCTCTGCTGCTTCACAGCCCTT 839  
 QY 894 TAATCCATGCTCAATCCCTTATCTGTAAGTCTTAGAACCTCAGAACTGAAGTAATCTT 953  
 DB 840 TAATCCATGCTCAATCCCTTATCTGTAAGTCTTAGAACCTCAGAACTGAAGTAATCTT 899  
 QY 954 GAAGAGAGTCTGCGAGTAGAAAGGCTTTA 984  
 DB 900 GAAGAGAGTCTGCGAGTAGAAAGGCTTTA 930  
 RESULT 10  
 ID ABA45207/c  
 ID ABA45207 standard: DNA: 1957 BP.  
 AC ABA45207;  
 XX 01-FEB-2002 (first entry)  
 DT  
 XX  
 DE Human breast cell single exon nucleic acid probe #3902.  
 XX  
 KW Human; microarray; single exon probe; gene expression; breast;  
 KM disease; cancer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN MO200157271-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PE 30-JAN-2001; 2001WO-US00662.  
 XX  
 PR 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX  
 PA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR WPI: 2001-496933/54.  
 XX  
 PT New spatially-addressable set of single exon nucleic acid probes,  
 PT useful for measuring gene expression in sample derived from human  
 PT breast, comprises number of single exon nucleic acid probes  
 PS  
 PS Claim 1; SEQ ID NO 3902; 327pp + sequence listing; English.  
 XX  
 CC The invention relates to a spatially-addressable set of single exon  
 CC nucleic acid probes for measuring gene expression in a sample derived  
 CC from human breast and Bt 474 cells. The method involves contacting  
 CC the probes with a collection of detectably labelled nucleic acids  
 CC derived from mRNA of human breast, and then measuring the label  
 CC bound to each probe of the microarray. The probes are useful for

CC verifying the expression of regions of genomic DNA predicted to  
 CC encode proteins. They are useful for gene discovery and for  
 CC determining predisposition and/or prognosing breast disease. Gene  
 CC expression analysis is useful for assessing the toxicity of chemical  
 CC agents on cells. The microarray of this invention presents a far greater  
 CC diversity of probes for measuring gene expression, with far less bias  
 CC than expressed sequence tag microarrays. The method is suitable for  
 CC rapid production of functional information from genomic sequence. The  
 CC present sequence is a single exon nucleic acid probe of the invention.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pcl\_sequences.  
 XX  
 SQ Sequence 1957 BP: 604 A; 368 C; 495 G; 490 T; 0 other;  
 Query Match 53.7%; Score 545; DB 22; Length 1957;  
 Best Local Similarity 74.6%; Fred. No. 6e-1531;  
 Matches 711; Conservative 0; Mismatches 240; Indels 2; Gaps 2;  
 QY 36 TTTCTCTGTCTATAGGATATGAGGAGCAATTAATCATCATCAGAGTTCTCTACT 95  
 DB 1073 TTTTCTTTTTCACAGGGAATGGGGAAATCAGCAATGCTCACAGATTCTCTACT 1014  
 QY 96 GGGATTTCCCGTTGGCCCAAGGATTCAGATGCTCTCTTGGGCTTCTCCCTGTTCTA 155  
 DB 1013 GGGATTTCTCTGGGCCCAAGGATTCAGATGCTCTCTTGGGCTCTCTCCCTGTTCTA 954  
 QY 156 CGTCTTCACCCGTCGGGGAAGGAGCCATCTGAGGCTCATCTCAGTCACTCCAGACT 215  
 DB 953 TATCTTACCCCTGTGGGAAGGAGCCATCTCTGAGGCTCATCTCAGTCACTCCAGACT 894  
 QY 216 GCAGGCCCC-1GTACTTCTCTCTCACACCTGGGSGTCTGCAATGCTCAAGCCTG 274  
 DB 893 CCACACCCCAATGATCTTCTCTTCCACACCTGGCTCTGTCACATGCTCAAGCCTCAACCG 834  
 QY 275 CAACAGGTCGCCCGAGTGTGTGTAACCTCTGATCCAGCAAGCCATCTCTTTCG 334  
 DB 833 CAACAGGTCGCCCGAGTGTGTGTAACCTCTGATCCAGCAAGCCATCTCTTTCG 774  
 QY 335 GGGCCGATGATGACAGACTCTTCTGTTTCCATCTTTCGTCGACAGAAATGTCCTCT 394  
 DB 773 TGGTTCATGACGACGACACTTCTCTGTTTGAATTTGGACAGCAATGTCCTCTCT 714  
 QY 395 GGTGTGATGTCATGATCTGTACGTGGCCATCTGCCACCCCTCGAATTTTGGCCAT 454  
 DB 713 GGTGTGATGTCATGATCTGTACGTGGCCATCTGCCACCCCTCGAATTTTGGCCAT 654  
 QY 455 CATGACCTGGAGAGTCTGATCACCCCTGCGTACTCTCTGACCACTGGAGTCTTTC 514  
 DB 653 CATGACCTGGAGAGTCTGATCACCCCTGCGTACTCTCTGACCACTGGAGTCTTTC 594  
 QY 515 ATGCTTGAATTCATCTGTTGTTACTCTCTTACCTTTACCTTGTGTGGCCCGAGAAATTTA 574  
 DB 593 GGTCTGCGCCATGTTGTTCTCATCTTAAGACTGCTCTCTCTGCGCTCATGAATCA 534  
 QY 575 TCACTTTTCTTGTGAATCTTGGCTGTTCGAATCTGCTGTGACAGTATCCCATATCA 634  
 DB 533 CCAC-TTCTTCTGTAAATCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT 475  
 QY 635 ATGAGAACATGTCCTTGGCCGAGCAATTTCTGGGCTGTGAGAGCCCTTGTCCAAATTC 694  
 DB 474 ACCAGGTGTCTATCTTGGAGCTGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 415  
 QY 695 TAGTTTCATATATGATCATCTCTGTGATTCCTTCAATCAATCAAGGAAATTTAGA 754  
 DB 414 TGTCTCTTACATCGACATCTCTGGGCGCATCTGTAGATTCATCTCTGTGAGAGGCGCA 355  
 QY 755 GGAAGCCTTCTGACACTTCTCTCCACCTCTGTGTATGACTCTTTTATG6CACAG 814  
 DB 354 GAAAGCCTTCTGACACTTCTCTCCACCTCTGTGTATGACTCTTTTGTG6CAGTG 295  
 QY 815 CCATTATCATATGTTGTGGACCCAGATATGGAAGCCCAAGAGCAGAAATATCTCC 874

Db 294 CCATCATCATGATGAGCCGCCCAAGTCCGCCATCTCTGAGAGACAGCAAAAGTCTTT 235  
 QY 875 TGTCTTTTCACAGCCTCTTTATATCCATGCTCAATCCCTTTATCTGATGCTTGAAGACT 934  
 Db 234 TTTCTATTTTACAGTTTTCACAGCCCAACACTTAACCCCTGATTTACAGCTTGAAGAG 175  
 QY 935 CAGAGTGAAGATATCTTGAAGAGAGTGTGAGAGTGAAGAGAGGCTTTATGA 987  
 Db 174 GAGAGCTCAAGGTGCTCCTGAGAGAGACACTGGGCAAGAAAGTCAATCTCTAA 122

RESULT 11  
 ABA55696/c  
 ID ABA55696 standard; DNA; 1957 BP.

XX ABA55696;

DT 01-FEB-2002 (first entry)

DE Human foetal liver single exon nucleic acid probe #4001.

XX Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS Homo sapiens.

PN W0200157277-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00669.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

PA Penn SC, Hanzel DK, Chen W, Rank DR;

PI WPI; 2001-483447/52.

DR Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human fetal liver.

PS Claim 1; SEQ ID NO 4001; 639pp + sequence listing; English.

CC The invention relates to a single exon nucleic acid probe for

CC measuring human gene expression in a sample derived from human foetal

CC liver. The single exon nucleic acid probes may be used for predicting,

CC measuring and displaying gene expression in samples derived from human

CC foetal liver. The present sequence is a single exon nucleic acid

CC probe of the invention.

CC Note: The sequence data for this patent did not form part of the

CC printed specification, but was obtained in electronic format directly

CC from WPIO at fip.wipo.int/pub/published\_pcl\_sequences.

XX Sequence 1957 BP; 604 A; 368 C; 495 G; 490 T; 0 other;

Query Match 53.7%; Score 545; DB 22; Length 1957;

Best Local Similarity 74.6%; Pred. No. 6e-153;

Matches 711; Conservative 0; Mismatches 240; Indels 2; Gaps 2;

QY 36 TTTCTCTCTATAGGATATGAGGAGACATATATACATCATACAGAGTCTCTCTACT 95  
 Db 1073 TTTCTTTTTCACAGGAAAGGAGAAATACACATATGATACAGAGTCTCTCTACT 1014  
 QY 96 GGGATTTTCCGTTGGCCCAAGATTCAGATGCTCTTGGGCTCTTCCCTGTCTTA 155  
 Db 1013 GGGATTTTCTCGGGCCCAAGATTCAGATGCTCTTGGGCTCTTCCCTGTCTTA 954

QY 156 CGTCTTACCCCTGCTGGGAAACGGACCAATCTGAGGCTCATCTGACTCCAGACT 215  
 Db 953 TATCTTACCCCTGCTGGGAAACGGACCAATCTGAGGCTCATCTGACTCCAGACT 894  
 QY 216 GCAGCCCCC -TGACTTCTTCTCTCTACACCTGAGGAGGCTGAGATGCTGAGGCTG 274  
 Db 893 CCACACCCCAATGACTTCTTCTCTCTACACCTGAGGAGGCTGAGATGCTGAGGCTG 834  
 QY 275 CAACAGGCTGCGCGGATGCTGTAACCTCTCTGATCCAGCCATCCCTCTCTTGG 334  
 Db 833 CAACAGGCTGCGCGGATGCTGTAACCTCTCTGATCCAGCCATCCCTCTCTTGG 774  
 QY 335 GGGCCGATGATGAGAGACCTTCTGTTTCCACTTGTGCTGCTGCTGCTGCTGCT 394  
 Db 773 TGGTTGATGAGAGAGACCTTCTGTTTCCACTTGTGCTGCTGCTGCTGCTGCT 714  
 QY 395 GGTGTGATGCTGATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 454  
 Db 713 GGTGTGATGCTGATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 654  
 QY 455 CATGACCGGAGAGTGTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 514  
 Db 653 CATGACCGGAGAGTGTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 594  
 QY 515 ATCTTGATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 574  
 Db 593 GGTGTGATGCTGATGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 534  
 QY 575 TCACCTTTTGTGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 634  
 Db 533 CCAC -TTCTTGTGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 475  
 QY 635 ATGAGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 694  
 Db 474 ACCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 415  
 QY 695 TAGTTTCATATATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 754  
 Db 414 TTGCTCTCTACTGCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 355  
 QY 755 GGAAGCCTTGTGCACTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 814  
 Db 354 GGAAGCCTTGTGCACTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 295  
 QY 815 CCATTATCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 874  
 Db 294 CCATCATCATGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 235  
 QY 875 TGTCTTTTCACAGCCTCTTTATTCATGCTCAATCTCTTATCTGATTTAGAGACT 934  
 Db 234 TTTCTATTTTACAGTTTTCACAGCCCAACACTTAACCCCTGATTTACAGCTTGAAGAG 175  
 QY 935 CAGAGTGAAGATATCTTGAAGAGAGTGTGAGAGTGAAGAGAGGCTTTATGA 987  
 Db 174 GAGAGCTCAAGGTGCTCCTGAGAGAGACACTGGGCAAGAAAGTCAATCTCTAA 122

RESULT 12

ID AAI13969 standard; DNA; 1957 BP.

XX AAI13969;

DT 12-OCT-2001 (first entry)

DE Probe #3902 for gene expression analysis in human cervical cell sample.

XX Probe; human; microarray; gene expression; cervical epithelial cell;

OS Homo sapiens.

PN W0200157278-A2.  
 XX 09-AUG-2001.  
 PD 30-JAN-2001; 2001WO-0500670.  
 PF 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX (MOLE-) MOLECULAR DYNAMICS INC.  
 PA Penn SG, Hanzel DK, Chen W, Rank DR;  
 PI WPI; 2001-488901/53.  
 DR Human genome-derived single exon nucleic acid probes useful for  
 XX analyzing gene expression in human cervical epithelial cells -  
 PT Claim 25; SEQ ID No 3902; 487bp; English.  
 PS The present invention relates to human single exon nucleic acid probes  
 XX (SENPs). The present sequence is one such probe. The SENPs are derived  
 CC from human HeLa cells. The SENPs can be used to produce a single exon  
 CC microarray, which can be used for measuring human gene expression in a  
 CC sample derived from human cervical epithelial cells. By measuring gene  
 CC expression, the probes are therefore useful in grading and/or staging  
 CC of diseases of the cervix, notably cervical cancer.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at [http://wipo.int/pub/publ/publseq\\_pcl\\_sequences](http://wipo.int/pub/publ/publseq_pcl_sequences).  
 XX  
 XX Sequence 1957 BP; 604 A; 368 C; 495 G; 490 T; 0 other;  
 S0  
 Query Match 53.7%; Score 345; DB 22; Length 1957;  
 Best Local Similarity 74.6%; Pred. No. 6e-153;  
 Matches 711; Conservative 0; Mismatches 240; Indels 2; Gaps 2;  
 OY 36 TTTCTCTGTCATGAGATATGAGGAGCAATTAACATCCATGACAGAGTCTCTACT 95  
 DB 1073 TTTCTTTTACAGGGAATGGGGAAATGAGACATGTCACAGAGTCTCTACT 1014  
 OY 96 GGGATTTCCCGTTGGCCCAAGATTCAGATGCTCTTTGGGCTCTTCTCCCTCTA 155  
 DB 1013 GGGATTTCTCTGGGCCCAAGATTCAGATGCTCTTTGGGCTCTTCTCCCTCTA 954  
 OY 156 CGTCTACCTCTGCGGAGACGGACATFACCTGGGCTCATCTGACTGCAGACT 215  
 DB 953 TATCTTACCTCTGCGGAGACGGGACATCTCTGGGCTCATCTGACTGCAGACT 894  
 OY 216 GCAAGCCGCC-TGTACTTCTCTCTACACCTGGGCTGTCAGATGCTCTACTG 274  
 DB 893 CCACACCCCATGTACTTCTCTCTCTCACACCTGGCTGTCAGATGCTCTACTG 834  
 OY 275 CAACAGCTGCCCCGATGCTGTCGAACTCTGATGATCAGCAAGCCCATCTCTTGC 334  
 DB 833 CAACAGCTGCCCCAATGCTGTCGAACTCTGATGATCAGCAAGCCCATCTCTTGC 774  
 OY 335 GGGCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 394  
 DB 773 TGGTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 714  
 OY 395 GGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 454  
 DB 713 GGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 654  
 OY 455 CATGACCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 514  
 DB 653 CATGACCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 594

OY 515 ATCCGTATTCATCTGTGTACTTCTTACCTTTACCTCTGTAGGCCCAAGAAATTTA 574  
 DB 593 GCGTCTGCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 534  
 OY 575 TCACCTTTTGTGAAATCTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 634  
 DB 533 CCAC-TTCTTCTGTGAAATCTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 475  
 OY 635 ATGAGAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 694  
 DB 474 ACCAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 415  
 OY 695 TAGTTTATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 754  
 DB 414 TTGTCTCTACTGACATCTCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 355  
 OY 755 GGAAGCCTTCTGACCTGCTTCTCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 814  
 DB 354 GAAAGCCTTCTGACCTGCTTCTCCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 295  
 OY 815 CCATTATCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 874  
 DB 294 CCATTATCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 235  
 OY 875 TGCTGTTTACAGCCTTCTTATTCATCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 934  
 DB 234 TTTATTTTCAAGTTTCTTCAACCAACCTTACCCCTGATTTACAGCTGAGGAACG 175  
 OY 935 CAGAGTGAAGAAATACCTTGAAGAGTGTGAGTGAAGAGGCTTTATGA 987  
 DB 174 GAGAGGTCAAGGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 122  
 RESULT 13  
 AAI35352/c  
 ID AAI35352 standard; DNA; 1957 BP.  
 XX AAI35352;  
 AC AAI35352;  
 DT 17-OCT-2001 (first entry)  
 XX Probe #4038 used to measure gene expression in human placenta sample.  
 DE Probe: microarray; human; placenta; antenatal diagnosis;  
 KW genetic disorder; ss.  
 OS Homo sapiens.  
 XX W0200157272-A2.  
 PN 09-AUG-2001.  
 PD 30-JAN-2001; 2001WO-0500670.  
 PF 04-FEB-2000; 2000US-0180312.  
 PR 26-MAY-2000; 2000US-0207456.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-0234687.  
 PR 27-SEP-2000; 2000US-0236359.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX (MOLE-) MOLECULAR DYNAMICS INC.  
 PA Penn SG, Hanzel DK, Chen W, Rank DR;  
 PI WPI; 2001-48897/53.  
 DR Human genome-derived single exon nucleic acid probes useful for  
 PT analyzing gene expression in human placenta -  
 XX Claim 25; SEQ ID No 4038; 654bp; English.  
 PS

XX The present invention relates to single exon nucleic acid probes (SENP).  
 CC The present sequence is one such probe. The probes are useful for  
 CC predicting a microarray for predicting, measuring and displaying gene  
 CC expression in samples derived from human placenta. The probes are useful  
 CC for antenatal diagnosis of human genetic disorders.

XX Sequence 1957 BP; 604 A; 368 C; 495 G; 490 T; 0 other;

Query Match 53.7%; Score 545; DB 22; Length 1957;  
 Best Local Similarity 74.6%; Pred. No. 6e-153;  
 Matches 711; Conservative 0; Mismatches 240; Indels 2; Gaps 2;

QY 36 TTTCTCTGTCATAGGATATGGGGGACATATACATCCATCAGAGTTCCTCTACT 95  
 DB 1073 TTTTCTTTTTCACAGGAAATGGGGGAAATCAGACAAATGTCACAGAGTTCCTCTACT 1014  
 QY 96 GGGATTTCCCTTGCCCAAGATTCAGATGCTCTTGGGCTCTTCTCCCTGTTCTA 155  
 DB 1013 GGGATTTCTCTGGGCAAGGATTCAGATGCTCTTGGGCTCTTCTCCCTGTTCTA 954  
 QY 156 GGTCTTACCCCTGCTGGGGAACGGGACATCTGAGGCTCATCTCACTGGACTCCAGACT 215  
 DB 953 TATCTTGACCCGTCTGGGGAACGGGACCATCTGGGCTCATCTCACTGGACTCCAGACT 894  
 QY 216 GCAGGCCCCC-TGTACTTCTTCTCTACACCTGGGCTGTCAGATGCTCCAGCTG 274  
 DB 893 CCACAGCCCCCATGACTTCTCTCTCTACACCTGGGCTGTCAGATGCTCCAGCTG 834  
 QY 275 CAACAGGTCGCCCGATGCTGTGTAACCTCCATCCAGCCCAACCCATCTCTTTCG 334  
 DB 833 CAACAGGTCGCCCGATGCTGTGTAACCTCCATCCAGCCCAACCCATCTCTTTCG 774  
 QY 335 GGGCCGATGATGAGACCTTCTGTTTCCACTTTTGGCTGTGACAGATGTCCTCTCT 394  
 DB 773 TGGTGACATGACGAGACCTTCTGTTTGGATGTTTGGACACAGGAAATGTCCTCTCT 714  
 QY 395 GGTGTGATGTCATGATGTCATGTCAGGACATCTGACACCCCTCCGATATTTGGCAT 454  
 DB 713 GGTGTGATGTCATGATGTCATGTCAGGACATCTGACACCCCTCCGATATTTGGCAT 654  
 QY 455 CATGACCTGGAGATCTGCATACCCCTGGGCTGTCAGTCTCTGACACCATGAGTCTTTT 514  
 DB 653 CATGACCTGGAGATCTGCATACCCCTGGGCTGTCAGTCTCTGACACCATGAGTCTTTT 594  
 QY 515 ATCCCTGATTCATCTGTGTACTTCTTACTTACCTTCTGTAGGCCCGAGAAATTTA 574  
 DB 593 GGTCTGGCCCATGTCATGTCATCCAAAGATGCTCCCTCTGTGGCTCTCATGAATTCAA 534  
 QY 575 TCACTTTTGTGGAATCTGGCTTCTTCAAACTTGGCTGTGACAGATACCCACATCA 634  
 DB 533 CCAC-TTCTCTGTGAATCTGTGTACTTCTTACTTACCTTCTGTAGGCCCGAGAAATTTA 475  
 QY 635 ATGAGAAATGTCCTGGGCGAGCAATTTCTGGGCTGTGTGGGACCTTGTCCACAAATG 694  
 DB 474 ACCAGAGTGTCATCTTTCAGACCTGCTGTCTTCCGTCGTGGGCGACCCAGCTGTGTC 415  
 QY 695 TAGCTTATATGTCATCTGTCATCTCTTCAAGATCCAAAGGAAATTTCA 754  
 DB 414 TTGCTCTCTACATCTGTCAGTCTGGGCTGTCAGATGTCAGTCTGGGAGGCGCTGCA 355  
 QY 755 GGAAGACCTTGTGACCTGCTTCTCCACCTGTGTGTGATGTCATCTTTATGGCAGAG 814  
 DB 354 GAAAGGCTTCTCTCCACCTGCTCTCCACCTGTGTGTGATGTCATCTTTATGGCAGAG 295  
 QY 815 CCATTATCATGTATGTCAGACCATGATATGGAACCCCAAGGAGGAGCAAGAAATATCTCC 874  
 DB 294 CCATCATCATGTATGTCAGACCATGATATGGAACCCCAAGGAGGAGCAAGAAATATCTCC 235  
 QY 875 TGTCTTTCACAGCTCTTTAATCCATGTCATCCCTTATCTGTAGTCTTGAAGT 934  
 DB 234 TTCTATTTTACAGTTTTCACCAACCACTTAACCCCTGATTTACAGCTTGAAGT 175

OY 935 CAGAGTGAAGATATCTTGAAGAGTGTGGGAGTGAAGAGGCTTATGA 987  
 DB 174 GAGAGTCAAGGTGCTCTGAGGAGGAGCTGGGCAAGAGTCACTTCTTA 122

RESULT 14  
 ABS03949/c  
 ID ABS03949 standard; DNA; 1957 BP.  
 AC ABS03949;  
 XX 19-AUG-2002 (first entry)  
 DT Human genome-derived single exon probe from lung SEQ ID No 3940.  
 XX

Human: ds: single exon probe; asthma; lung cancer; COPD; ILD;  
 KW chronic obstructive pulmonary disease; interstitial lung disease;  
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;  
 KW tubercous sclerosis; Gaucher's disease; Niemann-Pick disease;  
 KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;  
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagenen syndrome;  
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;  
 KW primary ciliary dyskinesia; pulmonary hypertension;  
 KW hyaline membrane disease.

OS Homo sapiens.  
 XX  
 PN MO200186003-A2.  
 XX  
 PD 15-NOV-2001.  
 PF 30-JAN-2001; 2001MO-US00665.  
 XX

PR 04-FEB-2000; 2000US-180312P.  
 PR 26-MAY-2000; 2000US-207456P.  
 PR 30-JUN-2000; 2000US-0608408.  
 PR 03-AUG-2000; 2000US-0632366.  
 PR 21-SEP-2000; 2000US-234687P.  
 PR 27-SEP-2000; 2000US-236359P.  
 PR 04-OCT-2000; 2000GB-0024263.  
 XX

FA (MOLE-) MOLECULAR DYNAMICS INC.  
 XX  
 PI Penn SG, Hanzel DK, Chen W, Rank DR;  
 XX  
 DR WPI: 2002-114183/15.  
 XX

PT Spatially-addressable set of single exon nucleic acid probes, used to  
 measure gene expression in human lung samples -  
 XX  
 PS Claim 1: SEQ ID No 3940; 634pp; English.  
 XX

CC The invention relates to a spatially-addressable set of single exon  
 CC nucleic acid probes for measuring gene expression in a sample derived  
 CC from human lung comprising single exon nucleic acid probes having one of  
 CC 12614 nucleic acid sequences mentioned in the specification, or their  
 CC complements or the 12387 open reading frames derived from the 12614  
 CC probes. Also included are a microarray comprising the novel set of  
 CC probes; the novel set of probes which hybridise at high stringency to a  
 CC nucleic acid expressed in the human lung; measuring gene expression in a  
 CC sample derived from human lung, comprising (a) contacting the array with  
 CC a collection of detectably labeled nucleic acids derived from human lung  
 CC mRNA, and (b) measuring the label detectably bound to each probe of  
 CC the array; identifying exons in a eukaryotic genome, comprising  
 CC (a) algorithmically predicting at least one exon from genomic sequences  
 CC of the eukaryote; and (b) detecting specific hybridisation of detectably  
 CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,  
 CC having a fragment identical to the predicted exon, the probe is included  
 CC in the above mentioned microarray; assigning exons to a single gene,  
 CC comprising (a) identifying exons from genomic sequence by the method  
 CC above and (b) measuring the expression of each of the exons in several  
 CC tissues and/or cell types using hybridisation to a single exon  
 CC microarrays having a probe with the exon, where a common pattern of





XX The sequence encodes a human G-protein coupled receptor (GPCR)-like protein. The GPCR-like polypeptides and polynucleotides are useful for the treatment of diseases of ophthalmic, neurological (e.g. Alzheimer's disease and Parkinson's disease, immunological (e.g. HIV infection and candidiasis), autoimmune disorders (e.g. multiple sclerosis, systemic lupus erythematosus and rheumatoid arthritis), platelet disorders (e.g. thrombocytopenia and aplastic anaemia), inflammatory disorders (e.g. septic shock and systemic inflammatory response syndrome, SIRS) and nephritic systems. They may also be used to treat hormonal dysfunction, cancer, atherosclerosis, wounds, tissue regeneration, haemophilia, leukaemia, reperfusion injury, psoriasis and diabetes. Numerous examples of each type of disorder are given in the specification. Anti-GPCR-like protein antibodies are useful for detecting or quantitating the GPCR protein in tissue. The polypeptides can also be used as molecular weight markers and as a food supplement.

XX Sequence 2282 BP; 583 A; 573 C; 428 G; 698 T; 0 other;

Query Match 53.18; Score 538.2; DB 22; Length 2282;

Best Local Similarly 73.68; Pred. No. 7.2e-151;

Matches 712; Conservative 0; Mismatches 253; Indels 2; Gaps 2;

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Db 1233 CTTTCTTGTGTTTATAGTGAATGTGTAAATACAGACAATGTCACAGAGTTCCCTC
Oy 91 CTACTGGGATTTCCCGTTGGCCCAAGATTCAGATGCTCTTTGGGCTCTTCCCTG
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1293 CTACTGGGATTTCTCTGGGCCCCAAGGATTCAGATGCTCTCTTGGGCTCTTCCCTG
Oy 151 TTTACGCTCTCACCGTCGGGAGGAGGACCATCTACTGGGGCTCATCTCAGTGGACTCC
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Db 1353 TTTCTGTCTTCAACCTCTCTCTGGGAGATGGACATCTCTGGGCTCATCTCAGTGGACTCC
Oy 211 AGACTGACGGCCCC-TGTACTTCTTCTCTCACACCTGGGGCTCTGACATGGCTTAC
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Db 1413 AGACTCCACACCCCATGTACTTCTCTCTCACACCTGGGGCTCTGACATGGCTTAC
Oy 270 GCGTCACACAGGTGGCCCCGGATGCTGTGAACCTCTGATCAGACCAAGCCCATCTCC
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Db 1473 GCGTCACACAGGTGGCCCCGGATGCTGTGAACCTCTGATCAGACCAAGCCCATCTCC
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Db 1533 TTTGGGGGCCCATGATGACAGCTTCTGTGTTTCCACTTTTGCTGTGTGACATGCTC
Oy 390 CTCCTGGGTGATGTCCTATGATGATGAGTGGCATGCGCACCCCTCGATATTG
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Oy 510 CTTTATGCTTATCATCTGCTGTACTCTTACCTTACCTTACCTTACCTTACCTTACCTT
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Oy 570 ATTTATCACTTTTGTGTGAATCTTGGCTGTCTCAAACTTGCTGTGACATACCA
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Db 1773 ATCAACAC-TTCTCTGTGAATCTGTGTCTCTCAGGCTGGCTGTGATACCTG
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Oy 690 AATTGTATTCATATATATGTCATCTGTGCTATCTCAGATCCATCAAGGGAAGT
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Db 1892 GATGCTGTCTCTACATCAGATCTGTGGGACCATCTGAGGATCCAGTCTGGGAGGG
Oy 750 TCAGAGAAAGCTTCTGACACTGCTCTCCACCTCTGTGTGATTTGACTTTTATGG
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Db 1952 CCGAGAAAGGCTTCTCACAAGTCTCTCCCAACCTCTGGGTAGTGGACCTCTTTGG
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Db 2012 CAGGCCATCTCATGTACATGGGCCCTTAAGTCCCGCATCTGAGAGACAGAAAGT
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Oy 930 GAACCTCAAGTGAAGATCTTTGAAGAGAGTCTGGAGTGAAGAGGCTTTATGAAA
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Db 2132 GAATGTAGGTCAAGAGGTGCTGCTGAGAGAGACCTGTCAAGAAAGTCAATCTTAA
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Db 2192 GGTGTGA 2198

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Search completed: May 2, 2003, 05:01:21  
Job time : 293 secs

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•  
•  
•



Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>  
Series: IRAC Plate: 27 Row: 1 Column: 22  
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Genomescan gene prediction, Similarity but not identity to protein

## FEATURES

source

Location/Qualifiers

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/clone.lib="NIH\_MGC\_89"  
/lab\_host="DH10B"  
/note="Vector: PCWV-SPORT6"

BASE COUNT 470 a 546 c 427 g 578 t

ORIGIN

Query Match 52.5%; Score 532.8; DB 11; Length 2021;  
Best Local Similarity 73.5%; Pred. No. 1.9e-134;  
Matches 706; Conservative 0; Mismatches 252; Indels 2; Gaps 2;

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DB 412 TCATATCATATTAGTAAGTAATGTGAAAAATGACAAATGACACAGATTCCTCTACTGG 471
OY 98 GATTTCCTGGTGGCCCAAGATTCAGATGCTCTCTTGGGGCTTCTCTCTCTCTCTACG 157
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DB 472 GATTTCCTGGTGGCCCAAGATTCAGATGCTCTCTTGGGGCTTCTCTCTCTCTCTAIG 351
OY 158 TCTTCACCTCTGGGGAGACGACATCTAGTGGGCTCATCTCACTGAGTCCAGACTGC 217
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DB 532 TCTTCACCTCTGGGGAGATGGAGACATCTAGTGGGCTCATCTCACTGAGTCCAGACTGC 591
OY 218 ACGGCCCC-NGTACTCTCTCTCTCAACACGCGGGGCTGTCAGATGCGCTACGCTGCA 276
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OY 277 ACACGGTGGCCCGGATGCTGTGAACCTCTGTCATCCAGCCAGCCCATCTCTCTGCG 336
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DB 1071 GTCTCTACTGACACATCTCTGCGGCCCATCTCTGAGATTCAGTCTGCGGAGGCCGAC 1130
OY 757 AAGGCTTCTGACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 816
   || || || || || || || || || || || || || || || || || || || || ||
DB 1131 AAGGCTTCTGACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1190
OY 817 ATTATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 876
   || || || || || || || || || || || || || || || || || || || || ||
DB 1191 ATCGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1250
OY 877 CTGTTTCACAGCCTCTCTTATATCCATGCTCAATCCCTTATCTGATCTTAGACTCA 936
   || || || || || || || || || || || || || || || || || || || || ||
DB 1251 CTTTATTCAGTCTTCTTACACCCGATGCTAAACCCCTGATTTACACCTGAGAACTGA 1310
OY 937 GAAGTGAACATCTTTGAGAGAGAGTGGAGATGAGAGAGAGAGAGAGAGAGAGAGATTA 996
   || || || || || || || || || || || || || || || || || || || || ||
DB 1311 GAGTGAAGGAGGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1370

```

RESULT 2  
A1339565/c 456 bp mRNA linear EST 13-FEB-1999

LOCUS qk67e07.x1 NCI-CGAP\_Co8 Homo sapiens cDNA clone IMAGE:1874052 3'

DEFINITION similar to SM:OLP7\_MOUSE P34984 OLFACTORY RECEPTOR-LIKE PROTEIN K7

ACCESSION A1339565  
VERSION A1339565.1 GI:4076492

KEYWORDS EST.  
SOURCE human.

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 456)  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

TITLE NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP).

JOURNAL Tumor Gene Index  
Unpublished (1997)

COMMENT Email: cgapbs-remail.nih.gov  
Contact: Robert Strausberg, Ph.D.

Emmert-Buck, M.D., Ph.D.  
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R.

CDNA Library Preparation: M. Bento Soares, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bbrp/image/image.html](http://www.bio.llnl.gov/bbrp/image/image.html)

Insert Length: 659 Std Error: 0.00  
Seq primer: 40bp from Gibco.

FEATURES  
source  
Location/Qualifiers

1..456  
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/db\_xref="taxon:9606"

/clone="IMAGE:1874052"  
/clone.lib="NCI-CGAP\_Co8"

/tissue.type="adrenocarcinoma"  
/lab\_host="DH10B"

/note="Organ: colon; Vector: p773D-Pac (Pharmacia) with a  
modified polylinker; 1st strand cDNA was prepared from

colon adenocarcinoma, and was then primed with a Not I -  
oligo(dT) primer. Double-stranded cDNA was ligated to Eco

RI adaptors (Pharmacia), digested with Not I and cloned  
into the Not I and Eco RI sites of the modified p773

vector. Library is normalized. Library was constructed by  
Bento Soares and M. Fatima Bonaldo.

BASE COUNT 136 a 93 c 149 g 78 t

ORIGIN  
Query Match 42.6%; Score 432; DB 9; Length 456;  
Best Local Similarity 99.8%; Pred. No. 3.7e-107;  
Matches 443; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

OY 143 TCTCTCTGTTCTACCTCTGCGGAGAACGAGACCATCTGCGGCTATCTCTAC 202

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|||||
Db 456 TCTCCGTTCTTCTAGCTCTTACCCCTGCTGGGAGGAGCAATCTGAGGCTCATCTCTAC 397
QY 203 TGGACCTCCAGACATGACAGCCCCC-TGTACTCTTCTCTTCACACCTGGCGTCTGAC 261
Db 396 TGGACCTCCAGACATGACAGCCCCC-TGTACTCTTCTCTTCACACCTGGCGTCTGAC 337
QY 262 TCGCCTAGGCTGCAACAGAGGTCGCCGATGCTGTGAACCTCTGATCCAGCAAC 321
Db 336 TCGCCTAGGCTGCAACAGAGGTCGCCGATGCTGTGAACCTCTGATCCAGCAAC 277
QY 322 CCATCTCTTCTGGGCGCCGATATGACAGACCTTCTGTTCACCTTGTCTGTACAG 381
Db 276 CCATCTCTTCTGGGCGCCGATATGACAGACCTTCTGTTCACCTTGTCTGTACAG 217
QY 382 AATGTCCTCTGCTGTGTATGCTATATCTGTATGCTGTATGCTGTATGCTGTATGCT 441
Db 216 AATGTCCTCTGCTGTGTATGCTATATCTGTATGCTGTATGCTGTATGCTGTATGCT 157
QY 442 GATATTTGGCCATCATGACCTGAGAGTGTGATCAACCTCGCGGTGACTTCTGAGCA 501
Db 156 GATATTTGGCCATCATGACCTGAGAGTGTGATCAACCTCGCGGTGACTTCTGAGCA 97
QY 502 CTGAGAGCTCTTTATCTTATCTTATCTTGTATCTTATCTTATCTTATCTTATCTTAT 561
Db 96 CTGAGAGCTCTTTATCTTATCTTATCTTGTATCTTATCTTATCTTATCTTATCTTAT 37
QY 562 CCCGAAAATTTATCATCTTTT 585
Db 36 CCCGAAAATTTATCATCTTTT 13

RESULT 3
BG984967 443 bp mRNA linear EST 12-JUN-2001
LOCUS IL5-CN0068-100401-434-d09 CN0068 Homo sapiens CDNA, mRNA sequence.
ACCESSION BG984967 GI:14387702
VERSION EST.
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 443)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Negal,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.P.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare
M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
CONTACT: Simpson A.J.G.
Laboratory of Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?cl=IL5&lt2=IL5-CN0068-
100401-434-d09&lt3=2001-04-10&lt4=1)
Seq primer: puc 18 forward
High quality sequence stop: 363.
Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/cclone_lib="CN0068"

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/rev_stage="Adult"
/Note="Organ: colon_normal; Vector: puc18; Site_1: Small;
Site_2: Small; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the puc 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."
BASE COUNT 136 a 94 c 131 g 81 t 1 others
ORIGIN
Query Match 42.3%; Score 429.4; DB 13; Length 443;
Best Local Similarity 99.3%; Pred. No. 1.9e-106;
Matches 441; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 261 ATGCCCTAGGCTGCAACAGAGTGGCCCGGATGCTGTGATCCCTGATCCAGCAAG 320
Db 443 ATGCCCTAGGCTGCAACAGAGTGGCCCGGATGCTGTGATCCCTGATCCAGCAAG 384
QY 321 CCCATCTCTTTGGGCGCCGATATGACAGACCTTCTGTTCACCTTGTCTGTAC 380
Db 383 CCCATCTCTTTGGGCGCCGATATGACAGACCTTCTGTTCACCTTGTCTGTAC 324
QY 381 GAATGTCCTCTGCTGTGTATGCTATATCTGTATGCTGTATGCTGTATGCTGTATGCT 440
Db 323 GAATGTCCTCTGCTGTGTATGCTATATCTGTATGCTGTATGCTGTATGCTGTATGCT 264
QY 441 CGATATTTGGCCATCATGACCTGAGAGTGTGATCAACCTCGCGGTGACTTCTGAGCA 500
Db 263 CGATATTTGGCCATCATGACCTGAGAGTGTGATCAACCTCGCGGTGACTTCTGAGCA 204
QY 501 ACTGAGAGCTCTTTATCTTATCTTATCTTGTATCTTATCTTATCTTATCTTATCTTAT 560
Db 203 ACTGAGAGCTCTTTATCTTATCTTATCTTGTATCTTATCTTATCTTATCTTATCTTAT 144
QY 561 CCCGAAAATTTATCATCTTTTGTGAAATCTTGGCTGTCTCAAACTTGCTGTGC 620
Db 143 CCCGAAAATTTATCATCTTTTGTGAAATCTTGGCTGTCTCAAACTTGCTGTGC 85
QY 621 AGATAGCCACATCAATGAGACATGGCTGGCGGAGCAATTTCTGGGCTGGGAGCC 680
Db 84 AGATAGCCACATCAATGAGACATGGCTGGCGGAGCAATTTCTGGGCTGGGAGCC 25
QY 681 CTGTCCACAATGTGATTTTCATA 704
Db 24 CTGTCCACAATGTGATTTTCATA 1

RESULT 4
BQ301355 456 bp mRNA linear EST 16-MAY-2002
LOCUS QV1-HB0037-020201-589-d09 HB0037 Homo sapiens CDNA, mRNA sequence.
ACCESSION BQ301355
VERSION BQ301355.1 GI:20816877
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 456)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Negal,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.P.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare
M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
CONTACT: Simpson A.J.G.
Laboratory of Cancer Research
Ludwig Institute for Cancer Research

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[illegible]

| QY                        | 330   | TTTCCGGGCGCATGATGACAGACTTTCTGTTTCACATTTTGGTGTGCACAGATGCTC   | 389                         |
|---------------------------|---|---|-----------------------------|
| Db                        | 302   | TTTCTGCTGCGCATGACATAGACCTTTCTCTTTTGAATTTTGCACATGATGATGCTC   | 361                         |
| QY                        | 390   | CTCTGGTGTGATGTCCTATGATCTGTACGTGGCCATCTGCCACCCCTCCGATATTTTG  | 449                         |
| Db                        | 362   | CTGTGGTGTGATGTCCTATGATCTGTACGTGGCCATCTGCCACCCCTCCGATATTTTG  | 421                         |
| QY                        | 450   | GCCATGACACGTGGAGATGACATCAACCCCGGGGGATCTTCCTGGACCATGGAGTC    | 509                         |
| Db                        | 422   | ATCATCTGACCTGNAAGTCTGCATCACTCTGGCCATCACTTCTTGCAGATGTGGCTCC  | 481                         |
| QY                        | 510   | CTTTATCTTGATGATCTTGTGTACTTCTACCTTTACCCCTTGTAGGCCCGAGAAA     | 569                         |
| Db                        | 482   | CTCTGGCTTGGGACCATGAGCCCTCATCCCAAGACCTGTTTGGGGCCCTGCTGAA     | 541                         |
| QY                        | 570   | ATTATACATTTTGTGGAATCTTGAGCTTCTGCAATCTTCCCTGGTGCACATAGCCA    | 629                         |
| Db                        | 542   | ATCACACAC-TTCTTCTGTGAATCTGTCTGTCTCTCAGGCTGGGCTGTGCTGATACCTG | 600                         |
| QY                        | 630   | CATCATGAG   | 639                         |
| Db                        | 601   | GCTCAACGAG  | 610                         |
| RESULT 7                  | AF327904  |   |                             |
| LOCUS                     | AF327904  | 705 bp  | mRNA linear HTc 13-JUL-2001 |
| DEFINITION                | Homo sapiens FKSG35 (FKSG35) mRNA, complete cds.  |   |                             |
| ACCESSION                 | AF327904  |   |                             |
| VERSION                   | AF327904.1  | GI:12276181   |                             |
| KEYWORDS                  | HTC.  |   |                             |
| SOURCE                    | Homo sapiens.   |   |                             |
| ORGANISM                  | Homo sapiens.   |   |                             |
| REFERENCE                 | Eukaryota; Metazoa; Chordata; Carnivora; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.                                  |   |                             |
| AUTHORS                   | Wang, Y.-G. and Gong, L.  |   |                             |
| JOURNAL                   | Cloning of FKSG35, a novel gene located on human chromosome 7   |   |                             |
| REFERENCE                 | Unpublished   |   |                             |
| AUTHORS                   | Wang, Y.-G.   |   |                             |
| TITLE                     | Direct Submission   |   |                             |
| JOURNAL                   | Submitted (13-DEC-2000) Beijing Fengsheng Function Gene Technology Ltd., 4 Tou Tiao Lu Chang Street, Xuanwu District, Beijing 100050, P. R. China |   |                             |
| FEATURES                  | Location/Qualifiers   |   |                             |
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|                           | /tissue_type="liver"  |   |                             |
|                           | 1..705  |   |                             |
|                           | /gene="FKSG35"  |   |                             |
|                           | 133..429  |   |                             |
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|                           | /translation="MKKQTVREFFLGLGAPRIQMLIFGLFSLFYVFTLLNGTTI<br>LDIISDRHLTPMVFELSHLAVNINVAACNTVPQMLVNLHPARISFAGMT"                                      |   |                             |
| BASE COUNT                | 156 a   | 201 c   | 132 g 216 t                 |
| ORIGIN                    |   |   |                             |
| Query Match               | 38.9%   | Score 394.8   | DB 11; Length 705;          |
| Best Local Similarity     | 80.9%   | Pred. No. 6.7e-97;  |                             |
| Matches 484; Conservative | 0;  | Mismatches 112;   | Indels 2; Gaps 2;           |
| QY                        | 31  | CTTGATTTCTCTGTGATGAGATATGGGGGACATATATACATCATCAGAGATTCTC     | 90                          |





**REFERENCE**  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo  
1 (bases 1 to 738)

**AUTHORS**  
NCI-CCGAP URL: <http://www.ncbi.nlm.nih.gov/ncicgap>.  
**TITLE**  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP)  
Tumor Gene Index

**JOURNAL  
COMMENT**  
Tumor Gene Index  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Baylor Research Institute  
6630 Foothill Drive  
Dallas, TX 75216

Email: [cygapos@emall.lnl.gov](mailto:cygapos@emall.lnl.gov)  
 This clone is available royalty-free through LNL; contact the  
 IMAGE Consortium ([info@image.lnl.gov](mailto:info@image.lnl.gov)) for further information.  
 Insert Length: 1896 Std Error: 0.00  
 Seq primer: -40m13 fwd. ET from Amersham  
 High quality sequence drop: 447.  
 Project:02000131

| REVIEWS | SOURCE | LOCATION/QUALIFIERS |
|---------|--------|---------------------|
| 1.      | .738   |                     |

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="1674375"
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/sex="male"
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/notes="Organ: Liver and Spleen; Vector: pTR73D (Pharmacia)
with a modified polylinker site.1: Pac I; Site.2: Eco RI
This is a subcloned version of the original Soares fetal
liver spleen INFLS library. 1st strand cDNA was primed
with a Pac I - oligo(dT) primer [5',
AACGGGAGAGATTAATTAAGATCTTTTATTTTATTTTATTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pTR73 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M.Fatima Bonaldo."

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|            |     |   |     |   |     |   |     |   |
|------------|-----|---|-----|---|-----|---|-----|---|
| BASE COUNT | 173 | A | 201 | C | 135 | g | 229 | E |
| ORIGIN     |     |   |     |   |     |   |     |   |

| Query Match      | 37.58; | Score 380.6; | DB 9; | Length 738; |
|------------------|--------|--------------|-------|-------------|
| Best Total Cited | 80.00  | Score 730.03 |       |             |

Matches 468; Conservative 0; Mismatches 109; Indels 2; Gaps 2;  
Best Local Similarity 80.8%; Pred. No. 5.2e-93;

[illegible]

Db 640 CTCCTGGCTATGCTCATGTGAGCCCTATCCTAAGACGTGGCCCTTTGTGGCCCTCGTGA 699

570 ATTATCACTTTTGTGAATCTTGGCTGTCTCA 608

Db 700 ATCAACCAC-TTCTCTGTGAATCCTTGCTGTCTCAA 737

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RESULT 10  
BF116115

|            |            |               |              |            |                  |
|------------|------------|---------------|--------------|------------|------------------|
| LOCUS      | BF116115   | 732 bp        | mRNA         | Linear     | EST 24-OCT-2000  |
| DEFINITION | 7n77g04.x1 | NCI_CGAP_Ov18 | Homo sapiens | cdna clone | IMAGE:3570631 3' |

similar to TR:O95047 O95047 WUGSC:H\_DJ0988G15.2 PROTEIN. ;, mRNA sequence.

|           |             |
|-----------|-------------|
| ACCESSION | BF116115    |
| VERSION   | BF116115.1  |
|           | GT:10985591 |

| VERSION | DATE       |
|---------|------------|
| 1.0     | 01.10.2000 |
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| SOURCE ORGANISM | Homo sapiens |
|-----------------|--------------|
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Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primate

REFERENCE 1 (bases 1 to 732)  
AUTHORS NCI-CGAP <http://www.nci>

**TITLE** National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

JOURNAL  
OF  
CONSUMER  
BEHAVIOR  
Unpublished (1997)  
Contact: Robert Chonko, Ph.D.  
University of Arizona

CONTACT: ROBERT STRAUSSER, Ph.D.  
Email: [cgapbs-r@mail.nih.gov](mailto:cgapbs-r@mail.nih.gov)

Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: M. Bento

Soares, ph.D. cDNA Library Arrayed by: Christa Prange, The  
I.M.A.G.E. Consortium DNA Sequencing by: Washington University

Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LINL, send email to:

info@image.llnl.gov  
Seq primer: -40UP from Gibco  
-40UP from Gibco

High quality sequence stop: 4/2  
Location/Qualifiers

**Source**

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/db_xref="taxon:3606"
/clone="IMAGE:3570631"
/clone_lib="NCLCGAP_OV18"
/tissue_type="fibrobloma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: ovary; Vector: PT73D-Pac (Pharmacia) with a
modified polylinker; Site:1: Not I; Site:2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTCACATCTGAAGTCGGACGCGCGCGCCGACATTTTTTTTTTTTTTTT 3']
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not
I and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization, and was
constructed by Bento Soares and M. Fatima Ronaldo."

```

| BASE COUNT | 152 a | 217 c | 145 g | 218 t |
|------------|-------|-------|-------|-------|
| ORIGIN     |       |       |       |       |

WISCONSIN

|                       |        |                    |        |             |
|-----------------------|--------|--------------------|--------|-------------|
| Query Match           | 36.5%; | Score 3/0.4;       | DB 12; | Length 732; |
| Best Local Similarity | 83.5%; | Pred. No. 3.2e-90; |        |             |

|    | Matches | 444;                   | Conservative                | 0;                      | Mismatches | 86; | Indels | 2; | Gaps | 2; |
|----|---------|------------------------|-----------------------------|-------------------------|------------|-----|--------|----|------|----|
| Qy | 36      | TTTTCTCTGTCATAGGATATG  | GGGGACAAATATAACATCA         | TCACAGATGTCCTCTAC       | 95         |     |        |    |      |    |
| Dd | 200     | TTTTCTTTTTCACAGGAAAT   | GGGGGAAATAATACAGCAAT        | TGTGTACAGATGTCCTCTAC    | 259        |     |        |    |      |    |
| Qy | 96      | GGATTTTC-CCGTGGGCCCAAG | ATTCAGATGTCCTCTTTGGGCTCT    | CTCCCTCTCTCT            | 154        |     |        |    |      |    |
| Dd | 260     | GGGATTTCTCTCTG         | GGGGCCCAAGATTCAGATCTCTCT    | TTTGGGCTCTTCTCTCCCTCTCT | 319        |     |        |    |      |    |
| Qy | 155     | ACGTCCTTACCGCTGCTGG    | GGAAACGGACCATCTAGGGGCTCAT   | CTCACTGGAAGCTCCAGAC     | 214        |     |        |    |      |    |
| Dd | 320     | ATATCTTACCGCTGCTGG     | GGAAACGGGGGCATCTCTGGGGCTCAT | CTCACTGGAAGCTCCAGAC     | 379        |     |        |    |      |    |

QY 215 TGCAGCCCCC-TGTACTTCTTCCTGACACACCTGGCGGTGTGACATGCGCTACGCCCT 273  
 DB 380 TCCACACCCCCCATGACTTCTTCCTGACACACCTGGCGGTGTGACATGCGCTACGCCCT 439  
 QY 274 GCACACGCGTGGCCCGAGTGTGTGACACCTGCTGATCAGCAGACCCATCTCTTTG 333  
 DB 440 GCACACGCGTGGCCCGAGTGTGTGACACCTGCTGATCAGCAGACCCATCTCTTTG 499  
 QY 334 CGGCGCGATGTGACGACCTTCTGTTTTCACCTTTTGTGTCAGACAGATGTCCTCC 393  
 DB 500 CTGGCGCATGTGACGACACCTTCTCTGTTGAGTTTGGACACAGGAAATGTCCTCC 559  
 QY 394 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 453  
 DB 560 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 619  
 QY 454 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 513  
 DB 620 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 679  
 QY 514 TATCTGTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 565  
 DB 680 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 731

RESULT 11  
 BE543056 580 bp mRNA linear EST 09-AUG-2000  
 LOCUS 601068985F1 NIH\_MGC\_12 Homo sapiens cDNA clone IMAGE:3455324 5'  
 DEFINITION mRNA sequence.  
 ACCESSION BE543056  
 VERSION BE543056.1 GI:9771701  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 580)  
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/  
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
 JOURNAL Unpublished (1999)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgabs-remail.nih.gov  
 Tissue Procurement: ATCC  
 cDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 http://image.llnl.gov  
 Plate: ILAM8441 row: 1 column: 21  
 High quality sequence start: 3  
 High quality sequence stop: 580.  
 Location/Qualifiers

FEATURES  
 source

1. 580  
 /organism="Homo sapiens"  
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 /clone="IMAGE:3455324"  
 /clone\_lib="NIH\_MGC\_12"  
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 /lab\_host="DH10B"  
 /note="Organ: cervix; Vector: pCMV-SPORT6; Site\_1: Nct1;  
 Site\_2: Salt; Cloned unidirectionally. Primer: Oligo dT.  
 Average insert size 1.4 kb. Library prepared by Life  
 Technologies."  
 BASE COUNT 96 a 189 c 125 g 170 t  
 ORIGIN

Query Match 35.4%; Score 359; DB 10; Length 580;  
 Best Local Similarity 80.6%; Pred. No. 3.8e-87;  
 Matches 444; Conservative 0; Mismatches 105; Indels 2; Gaps 2;

QY 116 GGATTCAGATGCTCCTCTTTGGGCTCTTCTCCTGTTCTACGCTTCACCCGTGGGGA 175  
 DB 1 GGATTCAGATGCTCCTCTTTGGGCTCTTCTCCTGTTCTACGCTTCACCCGTGGGGA 60  
 QY 176 ACGGACCATCTACTGACTGACTGACTGACTGACTGACTGACTGACTGACTGACTGACTG 234  
 DB 61 ATGGACCATCTCTGGGGCTCATCTGACTGACTGACTGACTGACTGACTGACTGACTG 120  
 QY 235 TCCCTCAGACCTGGCGGTCGACATGCTGACTGACTGACTGACTGACTGACTGACTGACTG 294  
 DB 121 TCCCTCAGACCTGGCGGTCGACATGCTGACTGACTGACTGACTGACTGACTGACTGACTG 180  
 QY 295 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 354  
 DB 181 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 240  
 QY 355 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 414  
 DB 241 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 300  
 QY 415 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 474  
 DB 301 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 360  
 QY 475 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 534  
 DB 361 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 420  
 QY 535 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 594  
 DB 421 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 479  
 QY 595 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 654  
 DB 480 TGTGTGTGTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 539  
 QY 655 GGAGCAATTC 665  
 DB 540 CCTCATGTTTC 550

RESULT 12  
 A1340119/c 367 bp mRNA linear EST 28-DEC-1998  
 LOCUS qk64f08.x1 NCI-CGAP\_C08 Homo sapiens cDNA clone IMAGE:1873767 3'  
 DEFINITION similar to SW:OLEF\_MOUSE P34984 OLFATORY RECEPTOR-LIKE PROTEIN K7  
 ;, mRNA sequence.  
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 VERSION A1340119.1 GI:4077046  
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 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 367)  
 AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgabs-remail.nih.gov  
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
 Emmerich-Buck, M.D., Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D.  
 DNA Sequencing by: Greg Lennon, Ph.D.  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at:  
 www.bio.llnl.gov/bdrrp/image/image.html  
 Seq primer: -400b from GIBCO  
 High quality sequence stop: 245.  
 Location/Qualifiers

FEATURES  
 source

1. 367







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GenCore version 5.1.4\_p5\_4578  
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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

OM nucleic - nucleic search, using sw model

Run on: May 2, 2003, 04:33:51 ; Search time 2809 Seconds

(without alignments) 10505.605 Million cell updates/sec

Title: US-09-898-586-23

Perfect score: 1014

Sequence: 1 taacacctctccttaacca.....catgcaatgtgactgacaa 1014

Scoring table: IDENTITY\_NTG

Searched: 2054640 segs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 45 summaries

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GenBml:
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_cm:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
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19: em_mu:*
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21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pin:*
35: em_htg_rod:*
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38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

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Pred. No. is the number of results predicted by chance to have a

| Result No. | Score | Match | Query Length | DB ID      | Description        |
|------------|-------|-------|--------------|------------|--------------------|
| 1          | 1014  | 100.0 | 1014         | AX197458   | AX197458 Sequence  |
| 2          | 990   | 97.6  | 130030       | AC004889   | AC004889 Homo sapi |
| 3          | 987.4 | 97.4  | 1012         | AX197456   | AX197456 Sequence  |
| 4          | 983.6 | 97.0  | 1040         | AX197438   | AX197438 Sequence  |
| 5          | 983.6 | 97.0  | 1040         | AX197469   | AX197469 Sequence  |
| 6          | 983.6 | 97.0  | 59130        | AL135904   | AL135904 Human DNA |
| 7          | 983.6 | 97.0  | 140915       | AC005587   | AC005587 Homo sapi |
| 8          | 936   | 92.3  | 974          | AX078373   | AX078373 Sequence  |
| 9          | 905.4 | 89.3  | 930          | AX242191   | AX242191 Sequence  |
| 10         | 903.6 | 89.1  | 933          | AX451262   | AX451262 Sequence  |
| 11         | 900.6 | 88.8  | 930          | AX241442   | AX241442 Sequence  |
| 12         | 900.6 | 88.8  | 930          | AX241473   | AX241473 Sequence  |
| 13         | 675   | 66.6  | 104955       | AC091768   | AC091768 Homo sapi |
| 14         | 645.4 | 63.6  | 204316       | AC091746   | AC091746 Mus muscu |
| 15         | 637.4 | 62.9  | 650          | AF395958   | AF395958 Homo sapi |
| 16         | 622   | 61.3  | 933          | AY073444   | AY073444 Mus muscu |
| 17         | 573.2 | 56.5  | 933          | AY073100   | AY073100 Mus muscu |
| 18         | 549.8 | 54.2  | 1262         | AX468421   | AX468421 Sequence  |
| 19         | 546.6 | 53.9  | 66610        | AC074386   | AC074386 Homo sapi |
| 20         | 545   | 53.7  | 1315         | AB065692   | AB065692 Homo sapi |
| 21         | 535.4 | 52.8  | 930          | AX242188   | AX242188 Sequence  |
| 22         | 519.8 | 51.3  | 813          | AX451240   | AX451240 Sequence  |
| 23         | 518.4 | 51.1  | 1792         | AX078369   | AX078369 Sequence  |
| 24         | 517.8 | 51.1  | 993          | AX242190   | AX242190 Sequence  |
| 25         | 509.8 | 50.3  | 542          | AX451241   | AX451241 Sequence  |
| 26         | 508.8 | 50.2  | 542          | AX451242   | AX451242 Sequence  |
| 27         | 481.2 | 47.5  | 1713         | AR092423   | AR092423 Sequence  |
| 28         | 458   | 45.2  | 106981       | AC120563   | AC120563 Rattus no |
| 29         | 444.4 | 43.8  | 162320       | AC076959   | AC076959 Homo sapi |
| 30         | 442.2 | 43.6  | 667          | MUSODORECA | 114566 Mouse (K7)  |
| 31         | 441.8 | 43.6  | 966          | AY073724   | AY073724 Mus muscu |
| 32         | 440.2 | 43.4  | 966          | AY073723   | AY073723 Mus muscu |
| 33         | 440.2 | 43.4  | 147341       | AC106354   | AC106354 Rattus no |
| 34         | 437.8 | 43.2  | 10985        | AC090838   | AC090838 Homo sapi |
| 35         | 430   | 42.4  | 576          | AY073820   | AY073820 Mus muscu |
| 36         | 429.6 | 42.4  | 576          | AX242035   | AX242035 Sequence  |
| 37         | 426.8 | 42.1  | 1357         | AB065695   | AB065695 Homo sapi |
| 38         | 423.8 | 41.8  | 942          | AY073443   | AY073443 Mus muscu |
| 39         | 423.6 | 41.8  | 162320       | AC076959   | AC076959 Homo sapi |
| 40         | 410.4 | 40.5  | 4424         | AX451249   | AX451249 Sequence  |
| 41         | 409.6 | 40.4  | 1334         | AB065480   | AB065480 Homo sapi |
| 42         | 409.6 | 40.4  | 130030       | AC004889   | AC004889 Homo sapi |
| 43         | 409.2 | 40.4  | 942          | AX241995   | AX241995 Sequence  |
| 44         | 409.2 | 40.4  | 1207         | AB065691   | AB065691 Homo sapi |
| 45         | 407.6 | 40.2  | 1333         | AB065693   | AB065693 Homo sapi |

## ALIGNMENTS

| RESULT 1 | LOCUS    | DEFINITION                         | ACCESSION | VERSION    | KEYWORDS    | SOURCE | ORGANISM |
|----------|----------|------------------------------------|-----------|------------|-------------|--------|----------|
| AX197458 | AX197458 | Sequence 23 from Patent WO0151632. | AX197458  | AX197458.1 | GI:15387838 |        | human.   |
| AX197458 | AX197458 | Sequence 23 from Patent WO0151632. | AX197458  | AX197458.1 | GI:15387838 |        | human.   |

REFERENCE 1 (bases 1 to 1014)  
Padigaru, M., Prayaga, S.K., Taupier, R.J., Mishra, V., Tchernev, V.T.,  
Szytek, K.A. and Li, L.  
Olfactory receptor polypeptides and nucleic acids encoding same





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QY 360 TTTCACCTTTGCTGTCACAGAAATGTCCTCCTGCTGCTGATGCTGATGCTGATC 419
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QY 540 CTACCTTACCTCTCTGAGGCCACAGAAATTTATCATCTTTTGTGTAATCTTGCC 599
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QY 780 CCACCTCTGCTGATGATGATGATCTTTATGCGACAGCCATATCATATGTCATCTCTG 839
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QY 960 AGTGTGGAGATGAGAAAGGCTTTATGAAAGATTTATGGCATGTGACTGACA 1013
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RESULT 3
LOCUS AX197456 1012 bp DNA linear PAT 29-AUG-2001
DEFINITION Sequence 21 from Patent WO0151632.
ACCESSION AX197456
VERSION AX197456.1 GI:15387837
KEYWORDS
SOURCE
ORGANISM human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE
1 (bases 1 to 1012)
AUTHORS Padigaru, M., Prayaga, S. K., Taupier, R. J., Mishra, V., Tchernev, V. T.,
Slyter, K. A. and Li, L.
TITLE Olfactory receptor polypeptides and nucleic acids encoding same
JOURNAL Patent: WO 0151632-A 21 19-Jul-2001;
Curagen Corporation (US)
FEATURES
source
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/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 219 a 281 c 215 g 297 t
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QY 62 ACAATATTAACATCATACAGAGTTCCTCTACTGAGATTTCCCGTTGGCCAGATTC 121
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QY 122 AGATCTCTCTCTGAGGCTTCTCTCCGTTCTACGTTCTACCTCTGCTGGGAGAGGA 181
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QY 182 CCATCTGAGGCTCATCTCATCTGATCTGACAGACTGACAGCCGCC -TGTACTTCTCTCT 240
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RESULT 4
LOCUS AX197438 1040 bp DNA linear PAT 29-AUG-2001
DEFINITION Sequence 3 from Patent WO0151632.

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Query Match 97.4%; Score 987.4; DB 6; Length 1012;  
 Best Local Similarity 99.7%; Pred. No. 1.2e-232;  
 Matches 1010; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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ACCESSION  AX197438
VERSION     AX197438.1  GI:15387828
KEYWORDS
SOURCE
ORGANISM    human.
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE   1 (bases 1 to 1040)
AUTHORS     Padigaru,M., Prayaga,S.K., Taupler,R.J., Mishra,V., Tchernev,V.T.,
            Szytek,K.A. and Li,L.
TITLE       Odorant receptor polypeptides and nucleic acids encoding same
JOURNAL     Patent: WO 0151632-A 3 19-Jul-2001;
            Curagen Corporation (US)
FEATURES
            source
            1..1040
            /organism="Homo sapiens"
            /db_xref="taxon:9606"
BASE COUNT  229 a 285 c 221 g 305 t
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Query Match          97.0%; Score 983.6; DB 6; Length 1040;
Best Local Similarity 99.4%; Pred. No. 1e-231;
Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 1 TAAACACTTCTCTTAAACCATGAGCATTAAGTTGTTCTCTCTCATAGGATATGGG 60
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QY 61 GACAAATATTAACATCCATCAAGAGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
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Db 88 GACAAATATTAACATCCATCAAGAGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 147

QY 121 CAGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
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Db 148 CAGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 207

QY 181 ACCATATCTGGGGCTCATCTGACATGACATGACATGACATGACATGACATGACATGAC 239
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Db 208 ACCATATCTGGGGCTCATCTGACATGACATGACATGACATGACATGACATGACATGAC 267

QY 240 TCACACTCTGGGGCTCTGACATGACATGACATGACATGACATGACATGACATGACATGAC 299
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QY 480 CTGGGGGATCTCTCTGACACATGAGTCTCTTTATCTCTGATTCATCTCTGTTACTT 539
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Db 508 CTGGGGGATCTCTCTGACACATGAGTCTCTTTATCTCTGATTCATCTCTGTTACTT 567

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Db 687 AATTTCGGGGCTGTGGGACCCCTTGTCCACAATTTGTAATTTATATATATGTCATCTCTG 746

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LOCUS      AX197469
DEFINITION Sequence 34 from Patent WO0151632.
ACCESSION  AX197469
VERSION     AX197469.1  GI:15387841
KEYWORDS
ORGANISM    human.
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE   1 (bases 1 to 1040)
AUTHORS     Padigaru,M., Prayaga,S.K., Taupler,R.J., Mishra,V., Tchernev,V.T.,
            Szytek,K.A. and Li,L.
TITLE       Odorant receptor polypeptides and nucleic acids encoding same
JOURNAL     Patent: WO 0151632-A 34 19-Jul-2001;
            Curagen Corporation (US)
FEATURES
            source
            1..1040
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            /db_xref="taxon:9606"
BASE COUNT  229 a 285 c 221 g 305 t
ORIGIN
Query Match          97.0%; Score 983.6; DB 6; Length 1040;
Best Local Similarity 99.4%; Pred. No. 1e-231;
Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 1 TAAACACTTCTCTTAAACCATGAGCATTAAGTTGTTCTCTCTCATAGGATATGGG 60
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Db 28 TAAACACTTCTCTTAAACCATGAGCATTAAGTTGTTCTCTCTCATAGGATATGGG 87

QY 61 GACAAATATTAACATCCATCAAGAGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
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Db 88 GACAAATATTAACATCCATCAAGAGTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 147

QY 121 CAGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
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Db 148 CAGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 207

QY 181 ACCATATCTGGGGCTCATCTGACATGACATGACATGACATGACATGACATGACATGAC 239
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QY 240 TCACACTCTGGGGCTCTGACATGACATGACATGACATGACATGACATGACATGACATGAC 299
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Db 268 TCACACTCTGGGGCTCTGACATGACATGACATGACATGACATGACATGACATGACATGAC 327

QY 300 AACCTCTCTGATCCAGCCCAAGCCCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 359
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Db 328 AACCTCTCTGATCCAGCCCAAGCCCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 387

QY 360 TTTTCCACTTTTGGCTGATCAGAAATGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 419
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448  GTGGGCATCTGCCACCCCTCCGATATTGGCCATCATGACCTGGAGAGCTGCATCACC 507
QY      480 CTCGGGTGACTTCTCTGGACACCATGAGAGTCTTTATCTGATTCATCTTGTACTT 539
Db      |||||
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QY      540 CTACCTTACCCCTTCTGTAGAGCCCGAGAAAATTTATCTCTTTTGTGAAAATCTTGGC 599
Db      |||||
568  CTACCTTACCCCTTCTGTAGAGCCCGAGAAAATTTATCTCTTTTGTGAAAATCTTGGC 626
QY      600 TGTCTCAAACTGCTCTGTGACAGATACCATCATGAGAACATGCTGTGGCCGAGC 659
Db      |||||
627  TGTCTCAAACTGCTCTGTGACAGATACCATCATGAGAACATGCTGTGGCCGAGC 686
QY      660 AATTTCTGGCTGTGGGACCCCTTGTCCACATTTGTAGTTCAATATATGTCATCTCTG 719
Db      |||||
687  AATTTCTGGCTGTGGGACCCCTTGTCCACATTTGTAGTTCAATATATGTCATCTCTG 746
QY      720 TGTCTCACTTCAATCAATCAATCAAGGAATTCAGAGAAAGCCCTTGTGCACTCTCTC 779
Db      |||||
747  TGTCTCACTTCAATCAATCAATCAAGGAATTCAGAGAAAGCCCTTGTGCACTCTCTC 806
QY      780 CCACCTCTGTGTGATTTGAGCTTTTATGCGACACCATTAATGATATGTTGGACCCAG 839
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867  ATATGGGAACCCGACAGAGCAAGAAATATCTCTGTCTTACAGCCCTCTTAAATCC 926
QY      900 CATGCTCAATCCCTTATCTGTAGTCTTAGAAGTCAAGAGTGAAGTACTTTGAAGAG 959
Db      |||||
927  CATGCTCAATCCCTTATCTGTAGTCTTAGAAGTCAAGAGTGAAGTACTTTGAAGAG 986
QY      960 AGTGTGGAGAGTGAAGAGGCTTTATGAGAAAGATTTAGGATGTGACGACCA 1013
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987  AGTGTGGAGAGTGAAGAGGCTTTATGAGAAAGATTTAGGATGTGACGACCA 1040

RESULT 6
LOCUS   AL135904/c
DEFINITION Human DNA sequence from clone RP5-1005H11 on chromosome 6 contains part of the gene for a 7 transmembrane receptor (rhodopsin family) (olfactory receptor like) protein, the gene for WUSC.H.D098863.3 protein, part of the PDN3 (phosphodiesterase 1/nucleotide pyrophosphatase 3) gene, ESTs, STS and GSSs, complete sequence.
ACCESSION AL135904
VERSION   AL135904.11 GI:7159399
KEYWORDS  HTG.
SOURCE    human.
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 59130)
AUTHORS  Lovell,J.
TITLE    Direct Submission
JOURNAL  Submitted (05-JUL-2000) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquey@sanger.ac.uk
COMMENT  On Mar 6, 2000 this sequence version replaced g1:7105768.
During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.
This sequence has been finished according to sequence map criteria

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as follows. An attempt is made to resolve all sequencing problems, such as compressions and repeats, but not necessarily within known annotated human repeat sequence elements (e.g. Alu). Where the sequence is ambiguous, there is an annotation using the 'unsure' feature key.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TrEMBL; Wp, WormPeP; Information on the WormPeP database can be found at <http://www.sanger.ac.uk/Projects/C.elegans/wormpep> This sequence was generated from part of bacterial clone contigs of human chromosome 6, constructed by the Sanger Centre Chromosome 6 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chr6>

RP5-1005H11 is from the library RPCr-5 constructed at the Roswell Park Cancer Institute by the group of Pieter de Jong. For further details see <http://bacpac.med.buffalo.edu/>

VECTOR: pCFPAC2

IMPORTANT: This sequence is not the entire insert of clone RP5-1005H11. It may be shorter because we sequence overlapping sections only once, except for a 100 base overlap.

The true right end of clone RP5-1005H11 is at 59130 in this sequence. The true right end of clone RP5-914N13 is at 105 in this sequence.

## FEATURES

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546..844
/feature="AluJo repeat: matches 2..301 of consensus"
870..940
/feature="U4 repeat: matches 1..72 of consensus"
1691..2906
/feature="L2 repeat: matches 1425..2737 of consensus"
3457..3960
/feature="HAI1 repeat: matches 420..971 of consensus"
3971..4106
/feature="MIR1d repeat: matches 1..129 of consensus"
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5891..6180
/feature="AlusX repeat: matches 1..291 of consensus"
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9867..10189
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10190..11723
/feature="TIGER1 repeat: matches 836..2418 of consensus"
12404..12715
/feature="AlusX repeat: matches 1..312 of consensus"
complement(13947..14176)
/feature="match: GSS: Em:B74942"
14280..14383
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15340..15508
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| repeat_region | 16731..17027   | /note="A1ux9 repeat: matches 1. .295 of consensus"  |
| repeat_region | 17609..17747   | /note="MER91A repeat: matches 1. .153 of consensus" |
| repeat_region | 17867..18162   | /note="A1uy repeat: matches 1. .299 of consensus"   |
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| 22432                      | 29530..29981                       |   |
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| 22312                      | 29530..29981                       |   |
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| 22252                      | 29530..29981                       |   |
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| 420                        | 29530..29981                       |   |
| 22132                      | 29530..29981                       |   |
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RESULT 8  
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 DEFINITION Sequence 41 from Patent WO0107612.  
 ACCESSION AX078373  
 VERSION AX078373.1 GI:13158042  
 KEYWORDS  
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 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
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 Au-Yang, J., Bandman, O., Tang, Y.T., Yue, H., Azimzai, Y., Burford, N.,  
 Baughn, M.R., Lu, D.A., Hillman, J.L., Patterson, C. and Lal, P.  
 Receptors and associated proteins  
 Patent: WO 0107612-A 41 01-FEB-2001;  
 JOURNAL Incyte Genomics, Inc. (US)  
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 DEFINITION Sequence 939 from Patent WO0127158.  
 ACCESSION AX242191  
 VERSION AX242191.1 GI:15799066  
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 ORGANISM synthetic construct.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 Bellenson, J., Smith, D., Lancet, D., Glusman, G., Fuchs, T. and  
 Yanai, I.  
 Olfactory receptor sequences  
 Patent: WO 0127158-A 939 19-APR-2001;  
 Disigents (US); YEDA RESEARCH AND DEVELOPMENT COMPANY, LTD. (IL)  
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 Best Local Similarity 99.7%; Pred. No. 1.9e-212;  
 Matches 928; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 55 ATGGGGACAAATATTAACATCATACAGAGTCTCTCTTACGAGTTCGGTGCCCA 114  
 Db 1 ATGGGGACAAATATTAACATCATACAGAGTCTCTCTTACGAGTTCGGTGCCCA 60  
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DEFINITION Sequence 1455 from Patent WO0214501.
ACCESSION AX451262
VERSION AX451262.1 GI:21698331
KEYWORDS
SOURCE unclassified.
ORGANISM unclassified.
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1 Hubert,R.S., Raitano,A.B., Faris,M., Challita-Eld,P.M., Ge,W. and
AUTHORS Jakobovits,A.
TITLE Nucleic acids and corresponding proteins entitled phori-11 and
JOURNAL phori-15d6 useful in treatment and detection of cancer
Agensys, Inc. (US)
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source location/Qualifiers
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Query Match 89.1%; Score 903.6; DB 6; Length 933;
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Matches 928; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

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Db 301 TTTCCTGTTTCCACTTTTGTGTACAGAAATGTCCTCTCTGCTGCTGATGTCCTATGAT 360
OY 414 CTGTAGTGGCCATCTGACACCCCTTCGATATTGGCCATCATGACCTGGAGAGCTGCG 473
    |||||||
Db 361 CTGTAGTGGCCATCTGACACCCCTTCGATATTGGCCATCATGACCTGGAGAGCTGCG 420
OY 474 ATCACCCTGCGGAGTCTCTGACACAGAGAGTCTTTTATCTTGATTCATCTTGTG 533
    |||||||
Db 421 ATCACCCTGCGGAGTCTCTGACACAGAGAGTCTTTTATCTTGATTCATCTTGTG 480
OY 534 TTACTTCTACCTTACCTCTCTGATGCCCCCAGAAAATTTATACCTTTTCTGTAAT 593
    |||||||
Db 481 TTACTTCTACCTTACCTCTCTGATGCCCCCAGAAAATTTATACCTTTTCTGTAAT 539
OY 594 CTGTGCTGTCTCTAACTCTGTCAGATACCCATCATGAGAAATGCTCTTGGC 653
    |||||||
Db 540 CTGTGCTGTCTCTAACTCTGTCAGATACCCATCATGAGAAATGCTCTTGGC 599
OY 654 CGGAGCAATTTCTGGGCTGTGGAGCCCTGTCACAAATGTAGTTCAATATNGCAT 713
    |||||||
Db 600 CGGAGCAATTTCTGGGCTGTGGAGCCCTGTCACAAATGTAGTTCAATATNGCAT 659
OY 714 CTCTGCTATACCTTCAATGATCCAAATCAAGGAAATTCAGAGAAAGCTCTTGCACCTG 773
    |||||||
Db 660 CTCTGCTATACCTTCAATGATCCAAATCAAGGAAATTCAGAGAAAGCTCTTGCACCTG 719
OY 774 CTCTCCACCTCTGTGATGTGACTCTTTATGACACAGCCATTTATCATGTATGTG 833
    |||||||
Db 720 CTCTCCACCTCTGTGATGTGACTCTTTATGACACAGCCATTTATCATGTATGTG 779
OY 834 ACCAGATATGGAAACCCCAAGAGAGCAAGAAATATCTCTGCTGTTTACAGCCCTT 893
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Db 780 ACCGAGATATGGAAACCCCAAGAGACAGAAATATCTCTGTTTACAGCCCTT 839
QY 894 TAATCCCATGTCATATCCCTTATCTGAGTCTTAGGAACTCAGAAATGAAGTACTT 953
Db 840 TAATCCCATGTCATATCCCTTATCTGAGTCTTAGGAACTCAGAAATGAAGTACTT 899
QY 954 GAAGAGAGTCTGGAGTAGAAGAGGCTTTATGA 987
Db 900 GAAGAGAGTCTGGAGTAGAAGAGGCTTTATGA 933

RESULT 11
AX241442 930 bp DNA linear PAT 26-SEP-2001
LOCUS AX241442
DEFINITION Sequence 190 from Patent WO0127158.
ACCESSION AX241442
VERSION AX241442.1 GI:15798317
KEYWORDS
SOURCE
ORGANISM
synthetic construct.
artificial sequences.
1 (bases 1 to 930)
REFERENCE
AUTHORS
Bellenson, J., Smith, D., Lancel, D., Glusman, G., Fuchs, T. and
Yanai, I.
TITLE
Olfactory receptor sequences
JOURNAL
Patent: WO 0127158-A 190 19-APR-2001;
Disigents (US) ; YEDA RESEARCH AND DEVELOPMENT COMPANY, LTD. (IL)
FEATURES
source
1..930
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="(H38938 nucleotide)"
BASE COUNT 193 a 265 c 202 g 270 t
ORIGIN
Query Match 88.8%; Score 900.6; DB 6; Length 930;
Best Local Similarity 99.4%; Pred. No. 2.9e-211;
Matches 925; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 55 ATGGGGAGCATATATACATCCATCCACAGAGTTCCTCTAGTGGATTTCCCGTTGGCCCA 114
Db 1 ATGGGGAGCATATATACATCCATCCACAGAGTTCCTCTAGTGGATTTCCCGTTGGCCCA 60
QY 115 AGGATTCAGATGCTCCTCTTTGGGCTCTTCCGTTCTAGTCTTCAACCTCTG66G 174
Db 61 AGGATTCAGATGCTCCTCTTTGGGCTCTTCCGTTCTAGTCTTCAACCTCTG66G 120
QY 175 AACGGACCATATAGTGGGCTCATCTCAGTGAATCCAGATGCAAGGCCCC -TGTACTTC 233
Db 121 AACGGACCATATAGTGGGCTCATCTCAGTGAATCCAGATGCAAGGCCCCATGTACTTC 180
QY 234 TTCTCTCTACACCTGGGCTGCTGACATGCTACAGCTCAGCAACAGGTTGCCCGGATG 293
Db 181 TTCTCTCTACACCTGGGCTGCTGACATGCTACAGCTCAGCAACAGGTTGCCCGGATG 240
QY 294 CTGGTGAACCTCTCATCCAGCCAGCCATCTCCTTTGGGGCCGATGATGATGAT 353
Db 241 CTGGTGAACCTCTCATCCAGCCAGCCATCTCCTTTGGGGCCGATGATGATGATGAT 300
QY 354 TTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 413
Db 301 TTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
QY 414 CTGTACGTGGCCATCTGCACCCCTCGATATTTGGCCATCATGACCTGGAGAGTCTGC 473
Db 361 CTGTACGTGGCCATCTGCACCCCTCGATATTTGGCCATCATGACCTGGAGAGTCTGC 420
QY 474 ATCAGCCCTGCGGTGACTCTCTGAGCACTGAGAGCTTTAATCTTGATTCATCTGTG 533
Db 421 ATCAGCCCTGCGGTGACTCTCTGAGCACTGAGAGCTTTAATCTTGATTCATCTGTG 480
QY 534 TTACTTCTACACTTACCTCTCTGTAGGCCCCAGAAATTTATCACTTTTGTGAAAT 593

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Db 481 TTACTTCTACACTTATACCTCTCTGTAGGCCCCAGAAATTTATCAC -TTTGTGTGAAAT 539
QY 594 CTGGCTCTTCTCAAACTTGGCTGTGCAATACCATATCAATGAAACATGCTGTGGC 653
Db 540 CTGGCTCTTCTCAAACTTGGCTGTGCAATACCATATCAATGAAACATGCTGTGGC 599
QY 654 CGGACCAATTTCTGGGCTGTGAGACCTGTCCACATTTAGTTTATATATATGTCAT 713
Db 600 CGGACCAATTTCTGGGCTGTGAGACCTGTCCACATTTAGTTTATATATATGTCAT 659
QY 714 CCTCTGTCTATCTCTTCAATCAATCAAGGAAGTTCAAGGAAGACCTTCTGCACTG 773
Db 660 CCTCTGTCTATCTCTTCAATCAATCAAGGAAGTTCAAGGAAGACCTTCTGCACTG 719
QY 774 CTCTCCACCTCTGTGATTTGACCTTTTATGAGCAACCATATATATATGATGTGG 833
Db 720 CTCTCCACCTCTGTGATTTGACCTTTTATGAGCAACCATATATATATGATGTGG 779
QY 834 ACCGAGATATGGGAACCCCAAGAGACAGAGAATAATCTCTGCTGTTTACAGCCTCT 893
Db 780 ACCGAGATATGGGAACCCCAAGAGAGACAGAGAATAATCTCTGCTGTTTACAGCCTCT 839
QY 894 TAATCCCATGTCATATCCCTTATCTGAGTCTTAGGAACTCAGAAATGAAGTACTT 953
Db 840 TAATCCCATGTCATATCCCTTATCTGAGTCTTAGGAACTCAGAAATGAAGTACTT 899
QY 954 GAAGAGAGTCTGGAGTAGAAGAGGCTTTA 984
Db 900 GAAGAGAGTCTGGAGTAGAAGAGGCTTTA 930

RESULT 12
AX241473 930 bp DNA linear PAT 26-SEP-2001
LOCUS AX241473
DEFINITION Sequence 221 from Patent WO0127158.
ACCESSION AX241473
VERSION AX241473.1 GI:15798348
KEYWORDS
SOURCE
ORGANISM
synthetic construct.
artificial sequences.
1 (bases 1 to 930)
REFERENCE
AUTHORS
Bellenson, J., Smith, D., Lancel, D., Glusman, G., Fuchs, T. and
Yanai, I.
TITLE
Olfactory receptor sequences
JOURNAL
Patent: WO 0127158-A 221 19-APR-2001;
Disigents (US) ; YEDA RESEARCH AND DEVELOPMENT COMPANY, LTD. (IL)
FEATURES
source
1..930
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="(H38970 nucleotide)"
BASE COUNT 193 a 265 c 202 g 270 t
ORIGIN
Query Match 88.8%; Score 900.6; DB 6; Length 930;
Best Local Similarity 99.4%; Pred. No. 2.9e-211;
Matches 925; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 55 ATGGGGAGCATATATACATCCATCCACAGAGTTCCTCTAGTGGATTTCCCGTTGGCCCA 114
Db 1 ATGGGGAGCATATATACATCCATCCACAGAGTTCCTCTAGTGGATTTCCCGTTGGCCCA 60
QY 115 AGGATTCAGATGCTCCTCTTTGGGCTCTTCCGTTCTAGTCTTCAACCTCTG66G 174
Db 61 AGGATTCAGATGCTCCTCTTTGGGCTCTTCCGTTCTAGTCTTCAACCTCTG66G 120
QY 175 AACGGACCATATAGTGGGCTCATCTCAGTGAATCCAGATGCAAGGCCCC -TGTACTTC 233
Db 121 AACGGACCATATAGTGGGCTCATCTCAGTGAATCCAGATGCAAGGCCCCATGTACTTC 180
QY 234 TTCTCTCTACACCTGGGCTGCTGACATGCTACAGCTCAGCAACAGGTTGCCCGGATG 293

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Db 181 TTCTCTCACACCTGGGGGCTGTGTGACATGCGCTTACAGCCCTGCAACAGGGTCCCGGATG 240
Oy 294 CTGTGTAACCTCTGTCATCCAGCAAGCCATCTCTTTGGGGGGCCGATGATGACACACC 353
Db 241 CTGTGTAACCTCTGTCATCCAGCAAGCCATCTCTTTGGGGGGCCGATGATGACACACC 300
Oy 354 TTCTGTTTTTCCACTTTTGTCTGTCTACAGAAATGTCTCTCTGATGTGATGTCTTATGAT 413
Db 301 TTCTGTTTTTCCACTTTTGTCTGTCTACAGAAATGTCTCTCTGATGTGATGTCTTATGAT 360
Oy 414 CTGTACGTGGCCATCTGTCACACCCCTCCGATATTGGGCATCATGACCTGGAGATCTGC 473
Db 361 CTGTACGTGGCCATCTGTCACACCCCTCCGATATTGGGCATCATGACCTGGAGATCTGC 420
Oy 474 ATCACTCTGGGGTGAATCTCTGTGACACATGAGATCTTTTATCTTGTATCTTGTG 533
Db 421 ATCACTCTGGGGTGAATCTCTGTGACACATGAGATCTTTTATCTTGTATCTTGTG 480
Oy 534 TTACTTACCTTTACCTCTGTGTAGGCCCCAGAAATTTATCACTTTTGTGAAAT 593
Db 481 TTACTTACCTTTACCTCTGTGTAGGCCCCAGAAATTTATCACTTTTGTGAAAT 539
Oy 594 CTGTGCTTTCTGCAACTTGGCTGTGCAATACCCATCATGAGAAATGCTTGGC 653
Db 540 CTGTGCTTTCTGCAACTTGGCTGTGCAATACCCATCATGAGAAATGCTTGGC 599
Oy 654 CGGAGCAATTTCTGGGCTGTGGGACCTTGTCCACAAATTTGATTTGATATATGTGAT 713
Db 600 CGGAGCAATTTCTGGGCTGTGGGACCTTGTCCACAAATTTGATTTGATATATGTGAT 659
Oy 714 CTTGTGTATCTTACCTTGCATCATCAAGGAATTTAGAGGAAGCTTCTGACCTG 773
Db 660 CTTGTGTATCTTACCTTGCATCATCAAGGAATTTAGAGGAAGCTTCTGACCTG 719
Oy 774 CTTGTGTATCTTACCTTGCATCATCAAGGAATTTAGAGGAAGCTTCTGACCTG 833
Db 720 CTTGTGTATCTTACCTTGCATCATCAAGGAATTTAGAGGAAGCTTCTGACCTG 779
Oy 834 ACCGAGATTTGGAACCCGAGAGAGAGAGAAATATCTCTGCTTTCACAGCTT 893
Db 780 ACCGAGATTTGGAACCCGAGAGAGAGAGAAATATCTCTGCTTTCACAGCTT 839
Oy 894 TATATCCATGTCATATCCCTTATCTGTATGATTTAGAGAACTGAGAAATATCTT 953
Db 840 TATATCCATGTCATATCCCTTATCTGTATGATTTAGAGAACTGAGAAATATCTT 899
Oy 954 GAGAGAGTGTGGAGTAGAAGAGGCTTTA 984
Db 900 GAGAGAGTGTGGAGTAGAAGAGGCTTTA 930

RESULT 13
LOCUS AC091768 104955 bp DNA linear PRI 09-JAN-2002
DEFINITION Homo sapiens BAC clone RP11-703N5 from 7, complete sequence.
ACCESSION AC091768
VERSION AC091768.4 GI:15145624
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 104955)
AUTHORS Sulston, J. E. and Waterston, R.
TITLE Toward a complete human genome sequence
JOURNAL Genome Res. 8 (11), 1097-1108 (1998)
MEDLINE 99063792
PUBMED 9847074
REFERENCE 2 (bases 1 to 104955)
AUTHORS Harris, A., Haakenson, W. and Spalding, L.
TITLE The sequence of Homo sapiens BAC clone RP11-703N5
JOURNAL Unpublished (2001)

```

## REFERENCE

3 (bases 1 to 104955)  
Waterston, R.H.  
Direct Submission  
Submitted (31-MAY-2001) Genome Sequencing Center, Washington  
University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
MO 63108, USA

## REFERENCE

4 (bases 1 to 104955)  
Waterston, R.H.

Direct Submission  
Submitted (09-AUG-2001) Genome Sequencing Center, Washington  
University School of Medicine, 4444 Forest Park Parkway, St. Louis,  
MO 63108, USA

## REFERENCE

5 (bases 1 to 104955)  
Waterston, R.

Direct Submission  
Submitted (09-JAN-2002) Department of Genetics, Washington  
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA  
On Aug 9, 2001 this sequence version replaced gl:14550325.  
----- Genome Center

## COMMENT

Center: Washington University Genome Sequencing Center  
Center code: WUGSC  
Web site: <http://genome.wustl.edu/gsc>  
Contact: [sapiens@wustl.edu](mailto:sapiens@wustl.edu)  
----- Summary Statistics  
Center project name: H\_NH0703N05

NOTICE: This sequence may not represent the entire insert of this  
clone. It may be shorter because we only sequence overlapping  
clone sections once, or longer because we provide a small overlap  
between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:  
all regions were double stranded, sequenced with an alternate  
chemistry, or covered by high quality data (i.e., phred quality >  
30); an attempt was made to resolve all sequencing problems, such  
as compressions and repeats; all regions were covered by sequence  
from more than one subclone; and the assembly was confirmed by  
restriction digest.

## MAPPING INFORMATION:

The sequence of this clone was established as part of a mapping and  
sequencing collaboration between the NHGRI Chromosome 7 Mapping  
Project (Eric D. Green, Director), John D. McPherson in the  
Department of Genetics (Washington University), and the Washington  
University Genome Sequencing Center. For additional information  
about the map position of this sequence, see  
<http://www.nhgri.nih.gov/DIR/CTB/CHR7>, send  
<mailto:egreen@nhgri.nih.gov>, or see <http://genome.wustl.edu/gsc>

## SOURCE INFORMATION:

The RPCT-11 human BAC library was made from the blood of one male  
donor, as described by Osoegawa, K., Woon, P.Y., Zhao, B., Frenken, E.,  
Faten, M., Catanesi, J.J., and de Jong, P.J. (1998) An improved  
approach for construction of bacterial artificial chromosome  
libraries. Genomics 51:1-8. The clone may be obtained either from  
Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong  
and coworkers at the Roswell Park Cancer Institute  
(<http://bacpac.med.buffalo.edu>)

## VECTOR: pBAC3.6

NEIGHBORING SEQUENCE INFORMATION:  
The clone sequenced to the left is RP4-669B10, 2000 bp overlap; the  
clone sequenced to the right is RP4-798C17, 2000 bp overlap.  
Actual start of this clone is at base position 123947 of  
RP4-669B10; actual end is at base position 64342 of RP11-798C17.

RP11-703N5 contains a single plasmid region from 4530 to 4616 and  
4668 to 4721.

## FEATURES

## SOURCE

Location/Qualifiers  
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/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/chromosome="7"

[illegible]

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Db 29315 TCAC-TTTTCTGTGAATATAGCGTGTCTCAAACTGCTGTGCAGATCCCAATCA 29373
OY 635 ATGAGAACATGCTCTGGCCGAGCAATTTCTGGGCTGTGTGGACCTTGTCCACAAATG 694
Db 29374 ATGAGTAAATGCTTTTGGAGGCGAGTGTCTGTCTGTGTGGAGCCCTTTTCCACTG 29433
OY 695 TAGTTTCATATATGTCATCTCTGTGTCTATCTCATCTCAATCCAAATCAAGGAAGTTAGA 754
Db 29434 TAAATATCTATGTCTCATATCTATGTGTCATCTCAATCCAGTCAGAGGAGGGGTGCC 29493
OY 755 GGAAAGCCTTGTGCACGCTTGTGTCACCACTGTGTGATGTGACCTTTATATGGCAG 814
Db 29494 AGAAAGCCTTGTGCATCTCTCTCCACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 29553
OY 815 CCATATCATATGATGTGTGGACCCAGATATGGAACCCAGAGCAGAGAAATATCTCC 874
Db 29554 CCATCATCATGATGTGTGTGGACCCAGATATGAGAGCCCAAGAGCAGAGAAATATCTCC 29613
OY 875 TCTGTGTTCACAGCCTCTTATCCCATCTCAATCCCTTATCTGTATGTGTGTGTGTGTGTGT 934
Db 29614 TGTGTGTTCACAGCCTCTTCAATCCCATCTCAATCCCTTATGTGTGTGTGTGTGTGTGT 29673
OY 935 CAGAGTGTGAGAAATCTTGAAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 989
Db 29674 AGGAGTGTGAGAAATCTTGAAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 29728

RESULT 14
AC091746 204316 bp DNA linear HTG 26-APR-2002
LOCUS Mus musculus chromosome 6 clone RP23-62E15 map 6B2, *** SEQUENCING
DEFINITION IN PROGRESS ***, 30 ordered pieces.
ACCESSION AC091746
VERSION AC091746.2 GI:20331040
KEYWORDS HTG; HTGS_PHASE2.
SOURCE Mus musculus.
ORGANISM Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 204316)
AUTHORS Young,J.M., Madan,A., Hall,J., Friedman,C., Dickhoff,R., Greene,J.,
Lane,R.P. and Trask,B.J.
TITLE Evolution of the mouse olfactory receptor gene family
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 204316)
AUTHORS Young,J.M., Madan,A., Hall,J., Friedman,C., Dickhoff,R., Greene,J.,
Lane,R.P. and Trask,B.J.
TITLE Direct Submission
JOURNAL Submitted (28-MAY-2001) Division of Human Biology, Fred Hutchinson
Cancer Research Center, 1100 Fairview Ave N, C3-168, P.O. Box
19024, Seattle, WA 98109-1024, USA
REFERENCE 3 (bases 1 to 204316)
AUTHORS Young,J.M., Madan,A., Hall,J., Friedman,C., Dickhoff,R., Greene,J.,
Rodrigues,S., Ketterman,M., Fahey,J., Helton,E., Sanchez,A.,
Madan,A., Whiting,M., Ross,J.A., Lane,R.P. and Trask,B.J.
TITLE Direct Submission
JOURNAL Submitted (26-APR-2002) Division of Human Biology, Fred Hutchinson
Cancer Research Center, 1100 Fairview Ave N, C3-168, P.O. Box
19024, Seattle, WA 98109-1024, USA
COMMENT
* NOTE: This is a 'working draft' sequence. It currently
* consists of 30 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submittor.
* This sequence will be replaced
* by the finished sequence as soon as it is available and

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* the accession number will be preserved.
1 1127: contig of 1127 bp in length
* 1128 1127: gap of unknown length
* 11228 18868: contig of 7641 bp in length
* 18869 18868: gap of unknown length
* 18969 40960: contig of 21992 bp in length
* 40961 41060: gap of unknown length
* 41061 44591: contig of 3531 bp in length
* 44592 44692: gap of unknown length
* 44692 46067: contig of 1376 bp in length
* 46068 46167: gap of unknown length
* 46168 47511: contig of 1344 bp in length
* 47512 47612: contig of 3743 bp in length
* 47612 51355: gap of unknown length
* 51355 51455: gap of unknown length
* 51455 52640: gap of 1185 bp in length
* 52640 52740: gap of unknown length
* 52740 54199: contig of 1460 bp in length
* 54199 54200: gap of unknown length
* 54200 54300: gap of unknown length
* 54300 63193: contig of 8994 bp in length
* 63194 63294: gap of unknown length
* 63294 70625: contig of 7332 bp in length
* 70626 70725: gap of unknown length
* 70726 74065: contig of 3340 bp in length
* 74066 74166: gap of unknown length
* 74166 77890: contig of 3725 bp in length
* 77891 77990: gap of unknown length
* 77991 82776: contig of 4786 bp in length
* 82777 82876: gap of unknown length
* 82877 90955: contig of 8079 bp in length
* 90956 91055: gap of unknown length
* 91056 93563: contig of 2508 bp in length
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* 93664 98539: contig of 4876 bp in length
* 98540 98639: gap of unknown length
* 98640 100233: contig of 1594 bp in length
* 100234 100333: gap of unknown length
* 100334 108744: contig of 8411 bp in length
* 108745 108845: gap of unknown length
* 108845 120584: contig of 11740 bp in length
* 120585 120684: gap of unknown length
* 120685 122234: contig of 1550 bp in length
* 122235 122334: gap of unknown length
* 122335 136966: contig of 14632 bp in length
* 136967 137066: gap of unknown length
* 137067 146815: contig of 9749 bp in length
* 146816 146915: gap of unknown length
* 146916 152543: contig of 5628 bp in length
* 152544 152643: gap of unknown length
* 152644 164250: contig of 11607 bp in length
* 164251 164350: gap of unknown length
* 164351 170223: contig of 5873 bp in length
* 170224 170323: gap of unknown length
* 170324 189235: contig of 18912 bp in length
* 189236 189335: gap of unknown length
* 189336 199422: contig of 10087 bp in length
* 199423 199522: gap of unknown length
* 199523 201282: contig of 1760 bp in length
* 201283 201382: gap of unknown length
* 201383 204316: contig of 2934 bp in length.

FEATURES
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/organism="Mus musculus"
/db_xref="taxon:10090"
/chromosome="6"
/map="6B2"
/clone="RP23-62E15"

BASE COUNT 61234 a 39664 c 38680 g 61651 t 3087 others

ORIGIN
Query Match 63.6% Score 645.4; DB 2: Length 204316;
Best Local Similarity 80.5%; Pred. No. 3,2e-148;
Matches 779; Conservative 0; Mismatches 187; Indels 2; Gaps 2;

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| OY        | 25        | CATTACTGATTTTCCTGTCTCATAGGGATATGCGGCACAAATAAACATCATCACAGAG       | 84                     |
| Db        | 117956    | CATGAATTAAGTTCCTCCTGTCAATGAGATATGGAAAACAATATGCAATTAACACAGAG      | 118015                 |
| OY        | 85        | TTCCTCCACTAGSGAATTTCCGTWGGGCCAAGAATTAGATGCTCCTTGGGGCTTTC         | 144                    |
| Db        | 118016    | TTCACTCCTCCTGAGATTTCTCTCTCAAGCCCCAGAGATGCAAGATGCTCTTTGGCCCTTTC   | 118075                 |
| OY        | 145       | TCCCTGTCTACGTCTTCAACCCTGCTGGGGAAAGGGAACATACTGGGGCTCATCTACTG      | 204                    |
| Db        | 118076    | TCCCCTCTCTATGCCCTTCAACCCCTGGTGGGAATGGAACCAATCGTGGGGCTCATCTGCCTG  | 118135                 |
| OY        | 205       | GACTCCAGACTGCAGCG-C-CCCTGTACTTTCTCCCTCTCACACACAGCGGGGCTGTGCACATC | 263                    |
| Db        | 118136    | GACTCCAGACTCCACACTCCCATGTAATCTTTCTCGTGTATCTGGCCATCGTTGACATTT     | 118195                 |
| OY        | 264       | GCCTTAGCCCTGGAAACAGGCTGGCCCGGAATGGCTGGGAACCTCCCGCATCCAGCAGCC     | 323                    |
| Db        | 118196    | GCCATAGCCCTGGAAACAGGCTGGCCCGGAATGGCTGGGAACCTTTAGTACAGAGAAAGCCC   | 118255                 |
| OY        | 324       | AATCTCTTTGCGGGCCGCAATGAGAGACCTTTCTGTTTTTCCACTTTTGGCTGTACAGAA     | 383                    |
| Db        | 118256    | AATTTCTATNCTGTTGTATGACAGACTTTTCTTTTGTGAAATTTGCTATACAGAA          | 118315                 |
| OY        | 384       | TGTCTCCTCTGGTGGTAGATCTCATGTATGTATACGAGGCAATCTGCACACCCCTCCGA      | 443                    |
| Db        | 118316    | TGCTTCTCCTAGTGGTGAATGTCATATGACCGGTAATGTGGAAATCTTCAACCACTCCGT     | 118375                 |
| OY        | 444       | TATTTGGCCATCATGACCTGGAAGATCTGCATCACTTCGGGGTGACTTCTTGACCACT       | 503                    |
| Db        | 118376    | TACTCTGCACATGAGCTGGAGATTTTGGACACACATGAGCAAGTCACTTCCTGGAATATT     | 118435                 |
| OY        | 504       | GGAATCCTTTTAACTCTGATTCATCTTGTGTACTTCTTACCTTTTACCCTTCTGTAGGCC     | 563                    |
| Db        | 118436    | GGATCTCTGCTCTTGTATGATCCACTCGGTACTTTTACCCTTACCCTCTGTGHTCT         | 118495                 |
| OY        | 564       | CAGAAAAATTAATACTTTTTHTGGAAATCTGGCTGTCTCTCAAATCTGCCTGTGAGCA       | 623                    |
| Db        | 118496    | CAGAAATGTAACAC-TTTTCTGTGAATTAACACTTACTCTCAAACCTTCTGTGAGCA        | 118554                 |
| OY        | 624       | TACCCACATCATGAGAACATGCTTGGCCGGAGCAATTTCTGGGCTGGTGGGACCTT         | 683                    |
| Db        | 118555    | CACACACCTCAAAAGAACATGCTGCTGGGCAATGCTGCTCTCTTGGGGCCATTT           | 118614                 |
| OY        | 684       | GTCACACATTTGATTTTCAATATGCTGCTGCTGCTGCTGCTTCTGTAGTCCAATCAAG       | 743                    |
| Db        | 118615    | CTCTCAATTTGTGTCTCTTATGATCATGTAATCTTGCTGTCTTCTGTGAAGATCCAATGACA   | 118674                 |
| OY        | 744       | GGAAGTTCAAGAGAAAGCCTTCTGCACTGCTTCTGCCACTCTGTGTGATTTGACTCTT       | 803                    |
| Db        | 118675    | AGAGGGTCAAAAGAAAGCCTTTTCCACCTGCTCCCTCCCACTCTGTGTGGATTTGAT        | 118734                 |
| OY        | 804       | TTATGACACAGCCATTATCATGTATGTGGACCCAGATATGGAACCCCAAGAGACAGAA       | 863                    |
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| VERSION                   | AF399598   |
| KEYWORDS                  | AF399598.1 GI:15293780   |
| ORGANISM                  | Homo sapiens.  |
| REFERENCE                 | Homo sapiens<br>Homo sapiens<br>Mammalia: Eutheria: Primates: Catarrhini: Hominoidea: Homo.  |
| TITLE                     | 1 (bases 1 to 650)   |
| JOURNAL                   | Fuchs,T., Malcova,B., Linhart,C., Sharan,R., Khen,M., Herwig,R., Simulevich,D., Elkon,R., Steinfehn,M., O'Brien,J.K., Radelof,U., Lehrach,H., Olender,Z., Glusman,G., Lancet,D. and Shamir,R.                                  |
| AUTHORS                   | DEFOC: A practical Scheme for Deciphering Families of Genes Unpublished  |
| FEATURES                  | 2 (bases 1 to 650)   |
| FEATURES                  | Fuchs,T., Malcova,B., Linhart,C., Sharan,R., Khen,M., Herwig,R., Simulevich,D., Elkon,R., Steinfehn,M., O'Brien,J.K., Radelof,U., Lehrach,H., Olender,Z., Glusman,G., Lancet,D. and Shamir,R.                                  |
| TITLE                     | Direct Submission  |
| JOURNAL                   | Submitted (16-JUL-2001) Dept. of Molecular Genetics and the Crown Human Genome Center, Weizmann Institute of Science, Rehovot 76100, Israel  |
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Job time : 3242 secs

GenCore version 5.1.4.p5\_4578  
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OM nucleic - nucleic search, using sw model

Run on: May 2, 2003, 04:56:35 ; Search time 1671 Seconds  
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Title: US-09-898-586-23

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Searched: 746064 seqs, 590810554 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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#### SUMMARIES

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| 41 | 235   | 23.2 | 939  | 10 US-09-886-055-66   | Sequence 66, Appl  |
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#### ALIGNMENTS

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US-09-898-586-23  
Sequence 23, Application US/09898586  
Publication No. US2003007794A1  
GENERAL INFORMATION:  
APPLICANT: Gerlach, Valerie L  
APPLICANT: MacDougall, John R  
APPLICANT: Smithson, Glenda  
TITLE OF INVENTION: No. US2003007794A1 Polypeptides and Nucleic Acids Encoding  
FILE REFERENCE: 15966-638CIP  
CURRENT APPLICATION NUMBER: US/09/898,586  
CURRENT FILING DATE: 2001-08-27  
PRIOR APPLICATION NUMBER: 60/177,839  
PRIOR FILING DATE: 2000-01-25  
PRIOR APPLICATION NUMBER: 60/176,134  
PRIOR FILING DATE: 2000-01-14  
PRIOR APPLICATION NUMBER: 60/175,989  
PRIOR FILING DATE: 2000-01-13  
PRIOR APPLICATION NUMBER: 60/218,324  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: 60/220,253  
PRIOR FILING DATE: 2000-07-24  
PRIOR APPLICATION NUMBER: 60/178,191  
PRIOR FILING DATE: 2000-01-26  
PRIOR APPLICATION NUMBER: 60/178,227  
PRIOR FILING DATE: 2000-01-26  
PRIOR APPLICATION NUMBER: 60/220,590  
PRIOR FILING DATE: 2000-07-25  
PRIOR APPLICATION NUMBER: 09/761,288  
PRIOR FILING DATE: 2001-01-16  
NUMBER OF SEQ ID NOS: 104  
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SEQ ID NO 23  
LENGTH: 1014  
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ORGANISM: Homo sapiens  
US-09-898-586-23  
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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1014; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2  
 us-09-761-288-23  
 ; Sequence 23, Application us/09761288  
 ; Patent No. US20020065405A1

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; GENERAL INFORMATION:
; APPLICANT: Muralidhara
; APPLICANT: Prayaga, Sudhidas
; APPLICANT: Taupier, Raymond J
; APPLICANT: Mishra, Vishnu
; APPLICANT: Tchernev, Velizar
; APPLICANT: Sylek, Kimberly
; APPLICANT: Li, Li
; TITLE OF INVENTION: No. US20020065405A1el Polypeptides and Nucleic Acids Encoding
; FILE REFERENCE: 15966-638
; CURRENT APPLICATION NUMBER: us/09/761,288
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: 60/177,839
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: 60/176,134
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/175,989
; PRIOR FILING DATE: 2000-01-13
; PRIOR APPLICATION NUMBER: 60/218,324
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/220,253
; PRIOR FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: 60/178,191
; PRIOR FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 60/178,227
; PRIOR FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 60/220,590
; PRIOR FILING DATE: 2000-07-25
; NUMBER OF SEQ ID NOS: 95
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; SEQ ID NO 23
; LENGTH: 1014
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-761-288-23

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1014; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 3

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US-09-898-586-21
: Sequence 21, Application US/09898586
: Publication No. US20030077794A1
: GENERAL INFORMATION:
: APPLICANT: Gerlach, Valerie L
: APPLICANT: Macdougall, John R
: APPLICANT: Smithson, Glenda
: TITLE OF INVENTION: No. US20030077794A1 Polypeptides and Nucleic Acids Encoding Sam
: FILE REFERENCE: 15966-638CIP
: CURRENT APPLICATION NUMBER: US/09/898,586
: PRIOR APPLICATION NUMBER: 2001-08-27
: PRIOR APPLICATION NUMBER: 60/177,839
: PRIOR FILING DATE: 2000-01-25
: PRIOR APPLICATION NUMBER: 60/176,134
: PRIOR FILING DATE: 2000-01-14
: PRIOR APPLICATION NUMBER: 60/175,989
: PRIOR FILING DATE: 2000-01-13
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: PRIOR FILING DATE: 2000-07-24
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: PRIOR FILING DATE: 2000-01-26
: PRIOR APPLICATION NUMBER: 60/178,227
: PRIOR FILING DATE: 2000-01-26
: PRIOR APPLICATION NUMBER: 60/220,590
: PRIOR FILING DATE: 2000-07-25
: PRIOR APPLICATION NUMBER: 09/761,288
: PRIOR FILING DATE: 2001-01-16
: NUMBER OF SEQ ID NOS: 104
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 21
: LENGTH: 1012
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-898-586-21
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Query Match 97.4%; Score 987.4; DB 9; Length 1012;  
Best Local Similarity 99.7%; Pred. No. 5.2e-312;  
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Db 1 AATACATCTTCTTAATACATGAGATTAATTAATTTCTCTCTCATATAGGATATGGGG 60
Oy 62 AATATATATATATATATATATATATATATATATATATATATATATATATATATATAT 121
Db 61 AATATATATATATATATATATATATATATATATATATATATATATATATATATATAT 120
Oy 122 AGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 181
Db 121 AGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
Oy 182 CCATATGAGGAGGCTATCTACATGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTG 240
Db 181 CCATATGAGGAGGCTATCTACATGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTGAGTCTG 240
Oy 241 CACACCTGGCGGTGTGAGATCGCTTACGCTGCAACAGAGTGCCCGGATGCTGTGA 300
Db 241 CACACCTGGCGGTGTGAGATCGCTTACGCTGCAACAGAGTGCCCGGATGCTGTGA 300
Oy 301 ACCCTCGACATCCAGCCAGCCATCTCTTGGGGGCGCATGATGAGACCTTTCTGT 360
Db 301 ACCCTCGACATCCAGCCAGCCATCTCTTGGGGGCGCATGATGAGACCTTTCTGT 360
Oy 361 TTTCACACTTTTCTGTACAGAAATGTCTCTCTGATGTGATGTCTATGATCTGTAG 420
Db 361 TTTCACACTTTTCTGTACAGAAATGTCTCTCTGATGTGATGTCTATGATCTGTAG 420
Oy 421 TGGGCATCTGACACCCCTCCGATATTTGGCCATCATGAGTCTGAGTCTGAGTCTGAG 480
Db 421 TGGGCATCTGACACCCCTCCGATATTTGGCCATCATGAGTCTGAGTCTGAGTCTGAG 480
Oy 481 TCGGGGTGACTTCTCTGAGACCACTGAGTCTCTTATCTTATCTTATCTTATCTTATCT 540
Db 481 TCGGGGTGACTTCTCTGAGACCACTGAGTCTCTTATCTTATCTTATCTTATCTTATCT 540
Oy 541 TACCTTACCCCTTCTGTAGAGCCCGAGAAATTTATCACTTTTGTGAAATCTGGGT 600
Db 541 TACCTTACCCCTTCTGTAGAGCCCGAGAAATTTATCTC-TTTTTGTGAAATCTGGGT 599
Oy 601 GTTCTCAACTTGTGCTGTGAGATACCCACATCAATGAGAAATGCTGTGGCCGAGCA 660
Db 601 GTTCTCAACTTGTGCTGTGAGATACCCACATCAATGAGAAATGCTGTGGCCGAGCA 659
Oy 661 ATTCTGAGCGTGGTGGAGACCTTGTCCACATTTGTAGTTCAATATATGTCATCTCTGT 720
Db 661 ATTCTGAGCGTGGTGGAGACCTTGTCCACATTTGTAGTTCAATATATGTCATCTCTGT 719
Oy 721 GCTATCTCTGATGATCAATCAAGGAAATTCAGAGAAAGCCCTTGCACCTCTCTCTCC 780
Db 721 GCTATCTCTGATGATCAATCAAGGAAATTCAGAGAAAGCCCTTGCACCTCTCTCTCC 779
Oy 781 CACCTCTGTGTGATGAGTCTTTTATGCAACAGCTTATCATGTATGTGGACCCAGA 840
Db 781 CACCTCTGTGTGATGAGTCTTTTATGCAACAGCTTATCATGTATGTGGACCCAGA 839
Oy 841 TATGGGAACCCCAAGAGAGAGAAATATCTCTGTGTTTCAAGCCCTTTAATCCC 900
Db 841 TATGGGAACCCCAAGAGAGAGAAATATCTCTGTGTTTCAAGCCCTTTAATCCC 899
Oy 901 ATGCTCAATCCCTTATCTGTAGTCTTGAAGACTCAGAACTGAAGAAATCTTTGAAGAGA 960
Db 901 ATGCTCAATCCCTTATCTGTAGTCTTGAAGACTCAGAACTGAAGAAATCTTTGAAGAGA 959
Oy 961 GTGCTGGAGTAGAAGGCGTTTATGAAAGATTTAGCATGTGTAGTACAGCA 1013
Db 961 GTGCTGGAGTAGAAGGCGTTTATGAAAGATTTAGCATGTGTAGTACAGCA 1012
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RESULT 4  
US-09-761-288-21

; Sequence 21, Application US/09761288  
; Patent No. US20020065405A1

; GENERAL INFORMATION:

; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Prayaga, Sudhirdas

; APPLICANT: Taupier, Raymond J

; APPLICANT: Mishra, Vishnu

; APPLICANT: Tchernev, Velizar

; APPLICANT: Speytek, Kimberly

; APPLICANT: Li, Li

; TITLE OF INVENTION: No. US20020065405A1el Polypeptides and Nucleic Acids Encoding Sam

; FILE REFERENCE: 15966-638

; CURRENT APPLICATION NUMBER: US/09/761,288

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: 60/177,839

; PRIOR FILING DATE: 2000-01-25

; PRIOR APPLICATION NUMBER: 60/176,134

; PRIOR FILING DATE: 2000-01-14

; PRIOR APPLICATION NUMBER: 60/175,989

; PRIOR FILING DATE: 2000-01-13

; PRIOR APPLICATION NUMBER: 60/218,324

; PRIOR FILING DATE: 2000-07-14

; PRIOR APPLICATION NUMBER: 60/220,253

; PRIOR FILING DATE: 2000-07-24

; PRIOR APPLICATION NUMBER: 60/178,191

; PRIOR FILING DATE: 2000-01-26

; PRIOR APPLICATION NUMBER: 60/178,227

; PRIOR FILING DATE: 2000-01-26

; PRIOR APPLICATION NUMBER: 60/220,590

; PRIOR FILING DATE: 2000-07-25

; NUMBER OF SEQ ID NOS: 95

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 21

; LENGTH: 1012

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-761-288-21

Query Match 97.4%; Score 987.4; DB 10; Length 1012;

Best Local Similarity 99.7%; Pred. No. 5,2e-312;

Matches 1010; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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QY 2 AAACACTCTCTCTAACCAGATGAGATTAATTCCTCTGTCATAGGATATGGGG 61
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DB 1 AAACACTCTCTCTAACCAGATGAGATTAATTCCTCTGTCATAGGATATGGGG 60
   |||||||
QY 62 ACAATATACATCCATCAGACAGATTCCTCTACTGGATTTCCGGTTGGCCCAAGATTC 121
   |||||||
DB 61 ACAATATACATCCATCAGACAGATTCCTCTACTGGATTTCCGGTTGGCCCAAGATTC 120
   |||||||
QY 122 AGATCTCTCTCTTGGGCTCTTCCCGTTCTACTGTTTACCTTACCTTGTGGGAAAGGGA 181
   |||||||
DB 121 AGATCTCTCTCTTGGGCTCTTCCCGTTCTACTGTTTACCTTACCTTGTGGGAAAGGGA 180
   |||||||
QY 182 CCATCTGGGGCTCATCTCAGACTGACCTCAGACTGACGCCCCC-TGTACTTCTTCTCT 240
   |||||||
DB 181 CCATCTGGGGCTCATCTCAGACTGACCTCAGACTGACGCCCCC-TGTACTTCTTCTCT 240
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QY 241 CACACTGGGGCTCTGACATGCGCTGACGCTGCAACAGGTTGCCCGGATGGCGTGA 300
   |||||||
DB 241 CACACTGGGGCTCTGACATGCGCTGACGCTGCAACAGGTTGCCCGGATGGCGTGA 300
   |||||||
QY 301 ACCTCTGCATCCAGCCAGCCCATCTCTTGGCGGGCCGATGATGAGAGACCTTTCTGT 360
   |||||||
DB 301 ACCTCTGCATCCAGCCAGCCCATCTCTTGGCGGGCCGATGATGAGAGACCTTTCTGT 360
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QY 361 TTTCACCTTTTGTGTCACAGAAATGTCTCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTT 420
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DB 361 TTTCACCTTTTGTGTCACAGAAATGTCTCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTT 420

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DB 481 TGGCGGTGACTCTCTGAGACACATGAGATCTTTTATCCCTGATTCATCTTGTGTTACTTC 540
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QY 541 TACCTTTACCTCTCTGTAGGGCCCCAGAAAATTTATCACTTTTGTGAAAATCTTGCT 600
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DB 541 TACCTTTACCTCTCTGTAGGGCCCCAGAAAATTTATCACTTTTGTGAAAATCTTGCT 600
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DB 601 GTTTCACAACTGCTCTGAGACATACCCATCATGAGAACATGCTGTGGCCGAGCA 660
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DB 661 ATTTCTGGGCTGTGGGACCTTTGTCCACATTTGATTTTCAATATGATGCTCTGCT 720
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DB 721 GGTATCTTCAGATCCAAATCAAGGAGAGTTTCAGAGGAAAGCTTGTGACCTGCTTCTCC 780
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QY 781 CACCTCTGTGATTTGAGCTTTTATGTCACAGCATTTATCATGATTTGAGACCCAGA 840
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DB 781 CACCTCTGTGATTTGAGCTTTTATGTCACAGCATTTATCATGATTTGAGACCCAGA 840
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   |||||||
DB 841 TATGGAAACCCCAAGAGAGAGAAATATCTCTGCTGTTTACAGCCTCTTTAATCC 900
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QY 901 ATGCTCAATCCCTTATGCTGATCTTTAGAACTGAAAGTGAAGATCTTTGAAGAGA 960
   |||||||
DB 901 ATGCTCAATCCCTTATGCTGATCTTTAGAACTGAAAGTGAAGATCTTTGAAGAGA 960
   |||||||
QY 961 GTGCTGGAGATGAAAGGCTTTATGAAAAGATTAATGCAATTTGATGATGATGATGATGAT 1013
   |||||||
DB 961 GTGCTGGAGATGAAAGGCTTTATGAAAAGATTAATGCAATTTGATGATGATGATGATGAT 1012
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RESULT 5  
US-09-898-586-3

; Sequence 3, Application US/09898586

; Publication No. US2003007794A1

; GENERAL INFORMATION:

; APPLICANT: Gerlach, Valerie L

; APPLICANT: MacDougall, John R

; APPLICANT: Smithson, Glenda

; TITLE OF INVENTION: No. US2003007794A1el Polypeptides and Nucleic Acids Encoding

; FILE REFERENCE: 15966-638CIP

; CURRENT APPLICATION NUMBER: US/09/898,586

; PRIOR FILING DATE: 2001-08-27

; PRIOR APPLICATION NUMBER: 60/177,839

; PRIOR FILING DATE: 2000-01-25

; PRIOR APPLICATION NUMBER: 60/176,134

; PRIOR FILING DATE: 2000-01-14

; PRIOR APPLICATION NUMBER: 60/175,989

; PRIOR FILING DATE: 2000-01-13

; PRIOR APPLICATION NUMBER: 60/218,324

; PRIOR FILING DATE: 2000-07-14

; PRIOR APPLICATION NUMBER: 60/220,253

; PRIOR FILING DATE: 2000-07-24

; PRIOR APPLICATION NUMBER: 60/178,191

; PRIOR FILING DATE: 2000-01-26

; PRIOR APPLICATION NUMBER: 60/178,227

; PRIOR FILING DATE: 2000-01-26

; PRIOR APPLICATION NUMBER: 60/220,590

; PRIOR FILING DATE: 2000-07-25

; PRIOR APPLICATION NUMBER: 09/761,288

; PRIOR FILING DATE: 2001-01-16

; NUMBER OF SEQ ID NOS: 104

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 3  
; LENGTH: 1040  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-898-586-3

Query Match 97.0%; Score 983.6; DB 9; Length 1040;  
Best Local Similarity 99.4%; Pred. No. 9,2e-311;  
Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

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OY 1 TAAACCTCTCTCTAAACATGAGCATTAACCTGATTCCTCTGATAGGATATGAGG 60
DB 28 TAAACCTCTCTCTAAACATGAGCATTAACCTGATTCCTCTGATAGGATATGAGG 87
OY 61 GACAAATATAACATCATCATCAGAGAGTCTCTACTGAGATTCCTGAGGAGGAGGAGG 120
DB 88 GACAAATATAACATCATCATCAGAGAGTCTCTACTGAGATTCCTGAGGAGGAGGAGG 147
OY 121 CAGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
DB 148 CAGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 207
OY 181 ACCATACTGGGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 239
DB 208 ACCATACTGGGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 267
OY 240 TCACACCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 299
DB 268 TCACACCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 327
OY 300 AACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 359
DB 328 AACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 387
OY 360 TTTTTCACCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 419
DB 388 TTTTTCACCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 447
OY 420 GTGGCCATCTGGCACCCTCCGATATTTGGCCATCATGAGTGGAGATCTGCATCAC 479
DB 448 GTGGCCATCTGGCACCCTCCGATATTTGGCCATCATGAGTGGAGATCTGCATCAC 507
OY 480 CTCGGGCTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 539
DB 508 CTCGGGCTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 567
OY 540 CTACCTTTTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 599
DB 568 CTACCTTTTACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 626
OY 600 TGTTCCTCAACCTTGCCTGTGCAGATACCCATCAATGAGAACATGCTGTGGCCGAG 659
DB 627 TGTTCCTCAACCTTGCCTGTGCAGATACCCATCAATGAGAACATGCTGTGGCCGAG 686
OY 660 AATTTCGGGCTGTGGGAGCCCTGTGCACAAATTTGATATGATATGATGATCTCTG 719
DB 687 AATTTCGGGCTGTGGGAGCCCTGTGCACAAATTTGATATGATATGATGATCTCTG 746
OY 720 TGTATCTCTTCAATCAATCAAGGAGTTCAGAGGAAAGCTTGTGACCTGTCTCTC 779
DB 747 TGTATCTCTTCAATCAATCAAGGAGTTCAGAGGAAAGCTTGTGACCTGTCTCTC 806
OY 780 CCACCTCTGTGTGATGATGATCTTTTATGAGCAGCCATTAATGATGATGATGAG 839
DB 807 CCACCTCTGTGTGATGATGATCTTTTATGAGCAGCCATTAATGATGATGATGAG 866
OY 840 ATATGGGAACCCCAAGAGAGAGAAATATCTCTGTCTCTCTCTCTCTCTCTCTCT 899
DB 867 ATATGGGAACCCCAAGAGAGAGAAATATCTCTGTCTCTCTCTCTCTCTCTCTCT 926
OY 900 CATGCTCAATCCCTTATCTGTGTGATGATGATGATGATGATGATGATGATGATG 959
DB 927 CATGCTCAATCCCTTATCTGTGTGATGATGATGATGATGATGATGATGATGATG 986
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OY 960 AGTCTGGAGAGTAAAGGCTTTATGAAAGATTTATGATGATGATGATGATGATG 1013  
DB 987 AGTCTGGAGAGTAAAGGCTTTATGAAAGATTTATGATGATGATGATGATGATG 1040

RESULT 6  
US-09-898-586-34  
; Sequence 34, Application US/09898586  
; Publication No. US20030077794A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glenda  
; TITLE OF INVENTION: No. US20030077794A1 Polypeptides and Nucleic Acids Encoding  
; FILE REFERENCE: 15966-638CIP  
; CURRENT APPLICATION NUMBER: US/09/898,586  
; CURRENT FILING DATE: 2001-08-27  
; PRIOR APPLICATION NUMBER: 60/177,839  
; PRIOR FILING DATE: 2000-01-25  
; PRIOR APPLICATION NUMBER: 60/176,134  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/175,989  
; PRIOR FILING DATE: 2000-01-13  
; PRIOR APPLICATION NUMBER: 60/218,324  
; PRIOR FILING DATE: 2000-07-14  
; PRIOR APPLICATION NUMBER: 60/220,253  
; PRIOR FILING DATE: 2000-07-24  
; PRIOR APPLICATION NUMBER: 60/178,191  
; PRIOR FILING DATE: 2000-01-26  
; PRIOR APPLICATION NUMBER: 60/178,227  
; PRIOR FILING DATE: 2000-01-26  
; PRIOR APPLICATION NUMBER: 60/220,590  
; PRIOR FILING DATE: 2000-07-25  
; PRIOR APPLICATION NUMBER: 09/61,288  
; PRIOR FILING DATE: 2001-01-16  
; NUMBER OF SEQ ID NOS: 104  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 34  
; LENGTH: 1040  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-898-586-34

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OY 1 TAAACCTCTCTCTAAACATGAGCATTAACCTGATTCCTCTGATAGGATATGAGG 60
DB 28 TAAACCTCTCTCTAAACATGAGCATTAACCTGATTCCTCTGATAGGATATGAGG 87
OY 61 GACAAATATAACATCATCATCAGAGAGTCTCTACTGAGATTCCTGAGGAGGAGGAG 120
DB 88 GACAAATATAACATCATCATCAGAGAGTCTCTACTGAGATTCCTGAGGAGGAGGAG 147
OY 121 CAGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
DB 148 CAGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 207
OY 181 ACCATACTGGGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 239
DB 208 ACCATACTGGGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 267
OY 240 TCACACCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 299
DB 268 TCACACCTGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 327
OY 300 AACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 359
DB 328 AACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 387
OY 360 TTTTTCACCTTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 419
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Db 867 ATATGGGAACCCCAAGAGAGAGAAATATCTCCTGCTTTCACAGGCTTTTAATCC 926  
 QY 900 CATGCTCAATCCCTTATCTAGTCTTGTAGAACTCAGAGTGAAGAAATCTTTGAAG 959  
 Db 927 CATGCTCAATCCCTTATCTAGTCTTGTAGAACTCAGAGTGAAGAAATCTTTGAAG 986  
 QY 960 AGTGTGGAGATGAAGAGGCTTTATGAAGAAATATGAGATGCTGAGTGAACA 1013  
 Db 987 AGTGTGGAGATGAAGAGGCTTTATGAAGAAATATGAGATGCTGAGTGAACA 1040

## RESULT 8

US-09-761-288-34  
 ; Sequence 34, Application US/09761288  
 ; Patent No. US20020065405A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Padigaru, Murallidhara  
 ; APPLICANT: Prayaga, Sudhildas  
 ; APPLICANT: Traupler, Raymond J  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Tchernev, Velizar  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Li, Li  
 ; TITLE OF INVENTION: No. US20020065405A1el Polypeptides and Nucleic Acids Encoding Sam  
 ; FILE REFERENCE: 15966-638  
 ; CURRENT APPLICATION NUMBER: US/09/761,288  
 ; CURRENT FILING DATE: 2001-01-16  
 ; PRIOR APPLICATION NUMBER: 60/177,839  
 ; PRIOR FILING DATE: 2000-01-25  
 ; PRIOR APPLICATION NUMBER: 60/176,134  
 ; PRIOR FILING DATE: 2000-01-14  
 ; PRIOR APPLICATION NUMBER: 60/175,989  
 ; PRIOR FILING DATE: 2000-01-13  
 ; PRIOR APPLICATION NUMBER: 60/218,324  
 ; PRIOR FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: 60/220,253  
 ; PRIOR FILING DATE: 2000-07-24  
 ; PRIOR APPLICATION NUMBER: 60/178,191  
 ; PRIOR FILING DATE: 2000-01-26  
 ; PRIOR APPLICATION NUMBER: 60/178,227  
 ; PRIOR FILING DATE: 2000-01-26  
 ; PRIOR APPLICATION NUMBER: 60/220,590  
 ; PRIOR FILING DATE: 2000-07-25  
 ; NUMBER OF SEQ ID NOS: 95  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 34  
 ; LENGTH: 1040  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-761-288-34

Query Match 97.0%; Score 983.6; DB 10; Length 1040;  
 Best Local Similarity 99.4%; Pred. No. 9,2e-311;

Matches 1008; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 1 TAAACCTTCTCTAACAATGAGATTAAGTATGCTTCTGTCATGGATATGGG 60  
 Db 28 TAAACCTTCTCTAACAATGAGATTAAGTATGCTTCTGTCATGGATATGGG 87  
 QY 61 GACAATATAACATCATCAAGAGTCTCTACTAGTGGATTCCGTTGGCCCAAGATT 120  
 Db 88 GACAATATAACATCATCAAGAGTCTCTACTAGTGGATTCCGTTGGCCCAAGATT 147  
 QY 121 CAAATGCTCTCTTTGGGCTTTCTCTCTCTTCTAGCTTTTACCTGCTGGGGAAGGG 180  
 Db 148 CAAATGCTCTCTTTGGGCTTTCTCTCTCTTCTAGCTTTTACCTGCTGGGGAAGGG 207  
 QY 181 ACCATAGTGGGCTCATCTACTAGTCAAGACTGCAAGCCGCC-TGTAATCTTCTCTC 239  
 Db 208 ACCATAGTGGGCTCATCTACTAGTCAAGACTGCAAGCCGCCCATGTAATCTTCTCTC 267  
 QY 240 TCACACTGGGCTGCTGACATCGCCTAGCGCTGCAACAGGTCGCCGATGCTGTTG 299

Db 268 TCACACTGGGCTGCTGACATCGCCTAGCGCTGCAACAGGTCGCCGATGCTGTTG 327  
 QY 300 AACCTCTGCATCCAGCCAAAGCCATGCTCTTTGGGGCCGATATGACACCTTTCTG 359  
 Db 328 AACCTCTGCATCCAGCCAAAGCCATGCTCTTTGGGGCCGATATGACACCTTTCTG 387  
 QY 360 TTTTCCACTTTTCTCTGACAGAAATGCTCTGCTGCTGGTGGTATGCTCATGATCTGAC 419  
 Db 388 TTTTCCACTTTTCTCTGACAGAAATGCTCTGCTGGTGGTATGCTCATGATCTGAC 447  
 QY 420 GTGGCCATGTGCCACCCCTCCGATATTTGGCCATCATGACCTGAGAGCTGTACAC 479  
 Db 448 GTGGCCATGTGCCACCCCTCCGATATTTGGCCATCATGACCTGAGAGCTGTACAC 507  
 QY 480 CTGCGGCTGACTCTGAGACCACTGAGAGTCTTTATCTGATTCATCTTGTACTT 539  
 Db 508 CTGCGGCTGACTCTGAGACCACTGAGAGTCTTTATCTGATTCATCTTGTACTT 567  
 QY 540 CTACCTTTACCTTCTGTAGGCCCCAGAAAATTTATCATCTTTTGTGAAATCTTGGC 599  
 Db 568 CTACCTTTACCTTCTGTAGGCCCCAGAAAATTTATCAC-TTTTGTGAAATCTTGGC 626  
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 QY 660 AATTTCTGGGCTGTGGAGCCCTTGTCACAATTTGATTTCAATATGTCATCTCTG 719  
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 QY 720 TGTATCTTCAGATCCAAATCAAGGAGTTGACAGAGAAAGCTTCTGACCTGCTTCTG 779  
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 Db 867 ATATGGGAACCCCAAGAGAGAGAAATATGCTCTGCTTTCACAGCTCTTTAATCC 926  
 QY 900 CATGCTCAATCCCTTATCTAGTCTTGTAGAACTCAGAGTGAAGAAATCTTTGAAG 959  
 Db 927 CATGCTCAATCCCTTATCTAGTCTTGTAGAACTCAGAGTGAAGAAATCTTTGAAG 986  
 QY 960 AGTGTGGAGATGAAGAGGCTTTATGAAGAAATATGAGATGCTGAGTGAACA 1013  
 Db 987 AGTGTGGAGATGAAGAGGCTTTATGAAGAAATATGAGATGCTGAGTGAACA 1040

## RESULT 9

US-09-864-761-13963/C  
 ; Sequence 13963, Application US/09864761  
 ; Patent No. US20020048763A1

## GENERAL INFORMATION:

; APPLICANT: Penn, Sharon G.  
 ; APPLICANT: Rank, David R.  
 ; APPLICANT: Hanzel, David K.  
 ; APPLICANT: Chen, Wensheng  
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL F  
 ; FILE REFERENCE: Aemica-X-1  
 ; CURRENT APPLICATION NUMBER: US/09/864,761  
 ; CURRENT FILING DATE: 2001-05-23  
 ; PRIOR APPLICATION NUMBER: US 60/180,312  
 ; PRIOR FILING DATE: 2000-02-04  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: US 09/632,366  
 ; PRIOR FILING DATE: 2000-08-03  
 ; PRIOR APPLICATION NUMBER: GB 24263.6  
 ; PRIOR FILING DATE: 2000-10-04

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PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
SEQ ID NO 13963
LENGTH: 1957
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC004889.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.93
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
US-09-864-761-13963

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Query Match          53.7%; Score 545; DB 10; Length 1957;
Best Local Similarity 74.6%; Pred. No. 3.1e-167;
Matches 711; Conservative 0; Mismatches 240; Indels 2; Gaps 2;

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QY 36 TTTCCTCTGCATATGGGATATGGGGGACATATTAACATCCATCAGACAGATCCCTACT 95
DB 1073 TTTCTTTTTCACAGGAAATGGGGAAATACAGACATAGGTGACAGATTCCTACT 1014
QY 96 GGGATTTCCGCTGGCCCAAGATTCAGATGCTCCTTTGGGCTCTTCCCTGTTCTA 155
DB 1013 GGGATTTCTCTGGCCCAAGATTCAGATGCTCCTTTGGGCTCTTCCCTGTTCTA 954
QY 156 CGTCTTACCTCTCTGGGGAACGGACCATATGCGGCTCATCTGATGAGCTCCAGACT 215
DB 953 TATCTTACCTCTCTGGGGAACGGGCACTCTGGGCTCTCTGATCTGACTGCAACT 894
QY 216 GCAGGCCCCG-TGTACTTCTCTCTCAGACCTGGGCGTGTGACATGCGCTACGCTG 274
DB 893 CCACACCCCAATGACTCTTCTCTCAGACCTGGGCTGTGCTCAGATCGCTACACCCG 834
QY 275 CAACAGGCTGGCCGAGTGTGGGAACCTCTGATCCAGCCAGGCCATCTCTTTCG 334
DB 833 CAACAGGCTGGCCGAGTGTGGGAACCTCTGATCCAGCCAGGCCATCTCTTTCG 774
QY 335 GGGCCGATGATGAGACCTTCTGTTTCCATTTTTCGTCACAGATCTCTCTCT 394
DB 773 TGTGTGATGAGACCTTCTCTGTTTTCGTCACAGATCTCTCTCTCT 714
QY 395 GGTGTGATGAGCTTCTGATCTGTAGTGGCCATCTGCACCCCTCGATATTGGCAT 454

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DB 713 GGTGCTGATGCTCCATCATGTTAGTGGCCATCTGACCCCTCTCGATCTCCCTCAT 654
QY 455 CATGACCTGGAGAGTCTGCATCACCTCGGCGTACTTCTTGACCACTGAGTCTTTT 514
DB 653 CATGACCTGGAGAGTCTGCATCACCTCGGCGTACTTCTTGACCACTGAGTCTTTT 594
QY 515 ATCTTGATTCATCTTGTGTTACTTCTTACCTTTCACCTCTGTTGAGCCCAAGAAATTA 574
DB 593 GGCCTGCGCCATGTGTGCTCATCTGACCTTACCTCCCTCTCTGAGCTCATGAAATCA 534
QY 575 TCACCTTTTCTTGAATCTTGGCTGTCTCAACCTTCTGACATTCACCAATCA 634
DB 533 CCAC-TTCTCTGTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 475
QY 635 ATGAGACATGCTCTTGGCCCGGAGCAATTTCTGCGTGGTGGGAGCCCTTGCCAAATTC 694
DB 474 ACCAGTGTGATCTTGTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 415
QY 695 TAGTTTCATATATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 754
DB 414 TTGCTCTCTACGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 355
QY 755 GGAAGCTTCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 814
DB 354 GAAAGCTTCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 295
QY 815 CCATTATCATGTATGTTGGACCCAGATATGGGAACCCCAAGAGACCAAGAAATATCTCC 874
DB 294 CCATCATCATGTATGATGACCCCAAGTCCGCAATCTGAGAGAGCAAGAAAGCTTTT 235
QY 875 TGCTGTTTCACAGCTCTTTAATCCATGCTCAATCCCTTATCTGTATGAGAACT 934
DB 234 TTCTATTATACGTTTTCACACCCCAACACTTAACCCCTGATTACAGCTGAGAACTG 175
QY 935 CGAAGTGAAGATCTTGAAGAGAGTCTGGAGTGAAGAAAGGCTTTATGA 987
DB 174 GAGAGTCAAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 122

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RESULT 10
US-10-098-841-92
Sequence 92, Application US/10098841
Publication No. US20020197679A1
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Asundi, Vinod
APPLICANT: Xu, Chongjun
APPLICANT: Zhou, Ping
APPLICANT: Ma, Yundong
APPLICANT: Wang, Jian-Rui
APPLICANT: Zhao, Qing A.
APPLICANT: Ren, Felyan
APPLICANT: Chen, Rui-hong
APPLICANT: Wang, Dunrui
APPLICANT: Wang, Zhiwei
APPLICANT: Wehrman, Tom
APPLICANT: Zhang, Jie
APPLICANT: Qian, Xiaohong B.
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. US20020197679A1el Nucleic Acids and
FILE REFERENCE: 784CIP2
CURRENT APPLICATION NUMBER: US/10/098,841
CURRENT FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: 09/598,042
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: 09/552,317
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 331

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; SOFTWARE: pl_FL_genes Version 1.0
; SEQ ID NO 92
; LENGTH: 2282
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1257)..(2189)
US-10-098-841-92

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Query Match      53.1%; Score 538.2; DB 9; Length 2282;
Best Local Similarity 73.6%; Pred. No. 5,6e-165;
Matches 712; Conservative 0; Mismatches 253; Indels 2; Gaps 2;

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QY 31 CTTGATTTCTCTGTCATAGGATATGGGGGACATATATATCATTCATCAGAGTTCTTC 90
DB 1233 CTTTGTGTTGTTTTTGTAGTATGAAATGTAATAATCAACATAGTGTACAGAGTTCTTC 1292
QY 91 CTACTGGGATTTTCCCGTGGCCCAAGATTACAGATCTCTCTTTGGGCTCTTCTCCG 150
DB 1293 CTACTGGGATTTTCTCGGGCCCAAGATTACAGATCTCTCTTTGGGCTCTTCTCCG 1352
QY 151 TTCTAGCTTTTCAACCCGCTGGGGAAGGACCATCTAGGGGCTATCTCAGTGAAGTCC 210
DB 1353 TTCTAGCTTTTCAACCCGCTGGGGAATGGAGACATCTCTGGGCTATCTCAGTGAAGTCC 1412
QY 211 AGACTGACGCCCCC-TGTAATCTTCTCTCTCAGACCTGGGCGGTGTCAGATCGGCTAC 269
DB 1413 AGACTGACACCCCATGTAATCTTCTCTCAGACCTGGGCGGTGTCAGATCGGCTAC 1472
QY 270 GCCCTGAACAGGAGGCCCCGGATGCTGGTGAACCTCTGATGACAGCCAGGCAATCTCC 329
DB 1473 GCCCTGAACAGATGCCCCGATGCTGGTGAACCTCTGATGACAGCCAGGCAATCTCC 1532
QY 330 TTTGCGGGGCGCATGATGACAGACCTTCTGTTTCCACTTTGCTGTCAGAGATGTCGC 389
DB 1533 TTTGCTGGCTGATGACAGACCTTCTGTTTCCACTTTGCTGTCAGAGATGTCGC 1592
QY 390 CTCTGGTGGTGAATGCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 449
DB 1593 CTCTGGTGGTGAATGCTCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 1652
QY 450 GCCATTCATGACCTGGAGAGTCTGATCAGCCCTGCGGATGCTGCTGAGCAATGAGATC 509
DB 1653 ATCATCATGACCTGGAGAGTCTGATCAGCCCTGCGGATGCTGCTGAGCAATGAGATC 1712
QY 510 CTTTATTCCTGATGATCATCTGCTGATCTCTGATCTCTGATCTCTGATCTCTGATCT 569
DB 1713 CTTCTGGCTATGCTGATGATCATCTGCTGATCTCTGATCTCTGATCTCTGATCT 1772
QY 570 AATTATGACTTTTGTGTAATCTTGGCTGTTCTCAACTTGCCTGTCAGATATCCCA 629
DB 1773 ATCAAGACAC-TTCTCTGCTGAATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1831
QY 630 CATCAATGAGAACATGCTCTGGCCGAGCAATTTCTGGGCTGGTGGAGCCCTTGTCCAC 689
DB 1832 GCTCAACAGAGTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1891
QY 690 AATTGATTTTCATATATGTCATCTCTGCTGATCTCTGATCTCTGATCTCTGATCTCTG 749
DB 1892 GGTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1951
QY 750 TCAGAGGAAGACCTTCTGACCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 809
DB 1952 CCGAGGAAGACCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2011
QY 810 CACAGCCATATATGATATGTTGAGCCAGATATGGAACCCCAAGAGAGAGAGAGAGT 869
DB 2012 CAGCGCCATGCTGATGATATGAGCCCTAAGTCCCGCATCTGAGAGAGAGAGAGT 2071
QY 870 TCTCTGCTGTTTTCAGAGCCCTTTTAATCCATGCTCAATCCCTTATCTGATGCTTGA 929
DB 2072 CTTTCTCTATATTTTACAGTTCTTTCAACCGAGTCTAAACCCCTGATTTACAACTGAG 2131

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QY 930 GAATCAGAGTGAAGAACTTTGAAAGAGTGTGGGAGTAGAAGAGGCTTATGAA 989
DB 2132 GAATGTAAGAGTCAAGAGGCTGCTGAGAGAGCAGTGTGCAAGAAAGTATCTTAAGA 2191
QY 990 AGGATTA 996
DB 2192 GGTGTGA 2198

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## RESULT 11

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US-09-747-835A-62
; Sequence 62, Application US/09747835A
; Patent No. US2002014692A1
; GENERAL INFORMATION:
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyun
; APPLICANT: Asundi, Vinod
; APPLICANT: Drmanac, Radoje T
; TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO G PROTEIN-COUPLED RECEPTOR-
; TITLE OF INVENTION: (LIFE) POLYPEPTIDES AND POLYNUCLEOTIDES
; FILE REFERENCE: HFS-37CIP
; CURRENT APPLICATION NUMBER: US/09/747, 835A
; PRIOR FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 09/729, 739
; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: US 09/553, 450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US 09/620, 312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US 09/598, 042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 09/552, 317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US 09/488, 725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 62
; LENGTH: 2282
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1257)..(2189)
US-09-747-835A-62

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Query Match      53.1%; Score 538.2; DB 10; Length 2282;
Best Local Similarity 73.6%; Pred. No. 5,6e-165;
Matches 712; Conservative 0; Mismatches 253; Indels 2; Gaps 2;

```

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QY 31 CTTGATTTCTCTGTCATAGGATATGGGGGACATATATATCATTCATCAGAGTTCTTC 90
DB 1233 CTTTGTGTTGTTTTTGTAGTATGAAATGTAATAATCAACATAGTGTGTACAGAGTTCTTC 1292
QY 91 CTACTGGGATTTTCCCGTGGCCCAAGATTACAGATCTCTCTTTGGGCTCTTCTCCG 150
DB 1293 CTACTGGGATTTTCTCGGGCCCAAGATTACAGATCTCTCTTTGGGCTCTTCTCCG 1352
QY 151 TTCTAGCTTTTCAACCCGCTGGGGAAGGACCATCTAGGGGCTATCTCAGTGAAGTCC 210
DB 1353 TTCTAGCTTTTCAACCCGCTGGGGAATGGAGACATCTCTGGGCTATCTCAGTGAAGTCC 1412
QY 211 AGACTGACGCCCCC-TGTAATCTTCTCTCTCAGACCTGGGCGGTGTCAGATCGGCTAC 269
DB 1413 AGACTGACACCCCATGTAATCTTCTCTCTCAGACCTGGGCGGTGTCAGATCGGCTAC 1472
QY 270 GCCCTGAACAGGAGGCCCCGGATGCTGGTGAACCTCTGATGACAGCCAGGCAATCTCC 329

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|||||
Db 1473 GCCTGCACACATGCGCCGAGATGCGTGAACCTCTGATCCACGACCAAGCCATCTCC 1532
QY 330 TTTGGCGGCGCGCATGATGACGACCTTTCTGTTCACCTTTGCTCTCCACAGATGCTC 389
Db 1533 TTTGCTGGCTGCATGACACAGACCTTTCTTTTGGATTGTTGACATAGTAATGCTC 1592
QY 390 CTCCTGGTGGTGAATGCTTCAATGATCTGTACGTTGGCCATGCGACCCCTCGATATTG 449
Db 1593 CTGTGGTGGTGAATGCTTCAATGATCTGTACGTTGGCCATGCGACCCCTCGATATTG 1652
QY 450 GCATCATGACCTGAGAGATGCTGATACGCTGCGGCTGCTCTGAGACCATGAGTGC 509
Db 1653 ATCTCATGACCTGAGAGATGCTGATACGCTGCGGCTGCTCTGAGACCATGAGTGC 1712
QY 510 CTTTATCCCTGATTCATCTGTTGTTACCTTACCTTCTGTGATGCCCCAGAAA 569
Db 1713 CTCCTGGCTATGCTGATGAGAGCTGATCTTACGATGCTGCTGTTGTTGGCTGTAA 1772
QY 570 ATTATCATCTTTTGTGAAAATCTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 629
Db 1773 ATCAACAC-TCCTTCTGTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1831
QY 630 CATCATGAGAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 689
Db 1832 GCTCAACACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1891
QY 690 AATTGATGTTTCAATATATGTCATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 749
Db 1892 GGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1951
QY 750 TCAAGAGAAAGCTTCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 809
Db 1952 CCGAGAAAGCTTCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2011
QY 810 CACAGCATATATATATGTTGAGACCAATATGAGAACCCCAAGAGAGAGAAATA 869
Db 2012 CAGGCGCATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2071
QY 870 TCTCTGCTGTTTACAGCTCTTATATCCATGCTGATGCTGATGCTGATGCTGATGCT 929
Db 2072 CCTTTTCTATTTTACAGCTCTTATATCCATGCTGATGCTGATGCTGATGCTGATGCT 2131
QY 930 GACCTGAGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 989
Db 2132 GATGATGAGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2191
QY 990 AGGATTA 996
Db 2192 GGTGTGA 2198

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## RESULT 12

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US-09-747-835A-35
; Sequence 35, Application US/09747835A
; Patent No. US20020146692A1
; GENERAL INFORMATION:
; APPLICANT: Yamazaki, Victoria
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Zhou, Ping
; APPLICANT: Wang, Dunrui
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyun
; APPLICANT: Asundi, Vinod
; APPLICANT: Dimaec, Radeje T
; TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO G PROTEIN-COUPLED RECEPTOR-LIKE
; FILE REFERENCE: HYS-37CIP
; CURRENT APPLICATION NUMBER: US/09/747,835A
; PRIOR FILING DATE: 2002-03-08
; PRIOR APPLICATION NUMBER: US 09/729,739
; PRIOR FILING DATE: 2000-12-04

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; PRIOR APPLICATION NUMBER: US 09/653,450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US 09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US 09/598,042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent version 3.0
; SEQ ID NO 35
; LENGTH: 1788
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (833)..(1417)
; US-09-747-835A-35
Query Match 52.9%; Score 536.6; DB 10; Length 1788;
Best Local Similarity 73.5%; Pred. No. 1.6e-164;
Matches 711; Conservative 0; Mismatches 254; Indels 2; Gaps 2;
QY 31 CTTGATTTCTGCTGATGAGATGAGGAGCAATATATACATCATCAGAGTTCTC 90
Db 461 CTTGATTTCTGCTGATGAGATGAGGAGCAATATATACATCATCAGAGTTCTC 520
QY 91 CTACCTGGATTTCCGCTTGGCCCAAGATTCAGATGCTCTTGGCTCTTCCCTG 150
Db 521 CTACCTGGATTTCTTCTGCGCCCAAGATTCAGATGCTCTTGGCTCTTCCCTG 580
QY 151 TTTACGCTTTCACCTGCTGCGGGAACGGACCATACCTGGGCTCATCTCATGACTCC 210
Db 581 TTTACGCTTTCACCTGCTGCGGGAACGGACCATACCTGGGCTCATCTCATGACTCC 640
QY 211 AGACTGACGCCCC--TGACTCTTCTCTCTGACACTGCGGCTGCTGACATGCTAC 269
Db 641 AGACTGACGCCCC--TGACTCTTCTCTCTGACACTGCGGCTGCTGACATGCTAC 700
QY 270 GCCTGACACGGTCCCGGATGCTGCTGATGCTCTGCTGCTGCTGCTGCTGCTGCTGCT 329
Db 701 GCCTGACACGGTCCCGGATGCTGCTGATGCTCTGCTGCTGCTGCTGCTGCTGCTGCT 760
QY 330 TTTGCGGCGGATGATGACGACCTTTCTGTTTCCACTTTGCTGCTGCTGCTGCTGCTGCT 389
Db 761 TTTGCGGCGGATGATGACGACCTTTCTGTTTCCACTTTGCTGCTGCTGCTGCTGCTGCT 820
QY 390 CTCCTGGTGTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 449
Db 821 CTCCTGGTGTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 880
QY 450 GCATCATGACCTGAGAGATGCTGATACGCTGCGGCTGCTGAGACCATGAGTGC 509
Db 881 ATCATCATGACCTGAGAGATGCTGATACGCTGCGGCTGCTGAGACCATGAGTGC 940
QY 510 CTTTATCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 569
Db 941 CTCCTGGTGTGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1000
QY 570 ATTATCATCTTTTGTGAAAATCTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 629
Db 1001 ATCAACAC-TCCTTCTGTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1059
QY 630 CATCATGAGAACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 689
Db 1060 GCTCAACACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1119
QY 690 AATTGATGTTTCAATATATGTCATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 749
Db 1120 GGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1179

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Page 11

RESULT 13  
US-09-747-835A-34  
; Sequence 34, Application US/09747835A  
; Patent No. US20020146692A1  
; Current Invention

|                           |        |                     |           |              |
|---------------------------|--------|---------------------|-----------|--------------|
| Query Match               | 52.98; | Score 536.6;        | DB 10;    | Length 2735; |
| Best Local Similarity     | 73.58; | Pred. No. 2.1e-164; |           |              |
| Matches 711; Conservative | 0;     | Mismatches 254;     | Indels 2; | Gaps 2       |

Db 1431 TTCTATGCTTTACCCCTGGTGGGAAATGGAGCAATCCCGGGGCTCACTCAGTAAGACTGC 1490  
 QY 211 AGACTGCAGCCCCC-TGTACTTCTTCTCTCACAACCTGGCGGTGCTGCATTCGGCTAC 269  
 Db 1491 AGACTGCAGCCCCCAGTACTTCTCTCACAACCTGGCGGTGCTGCATTCGGCTAT 1550  
 QY 270 GCGTCGACACAGCGTCCCGGATGCTGGTGAACCTCTGATCCAGCCCAAGCCCATCTCC 329  
 Db 1551 GCGTCGACACAGCGTCCCGGATGCTGGTGAACCTCTGATCCAGCCCAAGCCCATCTCC 1610  
 QY 330 TTTTGGCGGGCCGATGATGACAGACCTTTCTGTTTTCACACTTTGGTGTGCACAGAAATGCTTC 389  
 Db 1611 TTTTGGCGGGCCGATGATGACAGACCTTTCTGTTTGAATTTTGGATTTGACATACCTGATCTTC 1670  
 QY 390 CTCCTGGTGGTATGCTCATATGATCTGATGACCTGGGACATCTCCACCCCTCCCATATTTTG 449  
 Db 1671 CTCCTGGTGGTATGCTCATATGATGACCTGGGACATCTCCACCCCTCCCATATTTTG 1730  
 QY 450 GCCATATATACCTGGAGAGTCTGCATCACCTCTCGCGGTGACTTCTCTGGACCACTGGAGTGC 509  
 Db 1731 ATATATATACCTGGAGAGTCTGCATCACCTCTCGCGGTGACTTCTCTGGACCACTGGAGTGC 1790  
 QY 510 CTTTATATCTTATATCATCTTGTGTACTTCTTACCTTATACCTCTCTCTAGGCCCCAGAAA 569  
 Db 1791 CTTCTGGGATATGGTGCATGTAGAGCTCATACCTAGAGACGCGCTTTTGTGGGGCGTCGTGA 1850  
 QY 570 ATTATATCACTTTTCTTGTGAATCTTGGCGTGTCTCAAACTTGGCTGTGCATATACCA 629  
 Db 1851 ATCAACAC-CTTCTCTGTGAATCTTGGCGTGTCTCAAACTTGGCTGTGCATATACCTG 1909  
 QY 630 CATCAATGAGAACATGGTCTTGGCCGGAGACAAATTTCTGGCTGGTGGGACCTTGTCTCAC 689  
 Db 1910 GCATCAACAGGAGTGCATCTTGGACGCCGATGTATATCTGGTGGGACACATCTGCC 1969  
 QY 690 AATTGATTTTCAATATATGTCATCTCTGTGCTATCTTCAATCCATCAAGGGAAGT 749  
 Db 1970 GGTGGTGGTCTCTCTACTCACAACATCTTGGCGGCATCTGTAGATCCAGTCTTGTATG 2029  
 QY 750 TCAGAGGAAAGCCTTCTGCACCTGCTTCCACCTCTGTGTGATTTGGACTCTTTATATG 809  
 Db 2030 CCGCAGAAAGGCGCTTCTGCACCTGCTTCCACCTCTGTGTGATTTGGACTCTTTATATG 2089  
 QY 810 CACAGCCATTATCATATATGTTGGACCCAGATATGGGAACCCCAAGGACGAGAAGAAATA 869  
 Db 2090 CACAGCCATTATCATATATGTTGGACCCCTTAAGCTCCGCGCATCTGTAGAGAGACGAGAAGT 2149  
 QY 870 TCTCGCTGTTTCAACAGCCTCTTAAATCCATGCTCAATCCCTTATCTGTAGTCTTAG 929  
 Db 2150 CTTTTTCTATTTTACAGTTCTTTTCAACCCGATCTTAACCCCTGTATTTCAACCTGAG 2209  
 QY 930 GAACCTAGAGGAACAAATCTTGAAGAGAGTGTGTGGATTAAGAGGGCTTATATGAA 969  
 Db 2210 GAATGTAGAGGTACAGGGTGCCTGTAGAGAGACACTGTGCAAGAAAGTCAATCTTAAGA 2269  
 QY 990 AGGATTA 996  
 Db 2270 GGTTGTA 2276

RESULT 14  
 US-09-864-761-30527/c  
 : Sequence 30527, Application US/09864761  
 : Patent No. US20020048763A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Penn, Sharon G.  
 : APPLICANT: Rank, David R.  
 : APPLICANT: Hanzel, David K.  
 : APPLICANT: Chen, Wensheng  
 : TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES  
 : TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY  
 : FILE REFERENCE: Aeonica-X-1  
 : CURRENT APPLICATION NUMBER: US/09/864,761

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CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 30527
LENGTH: 933
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC004889.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.93
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
OTHER INFORMATION: SWISSPROT HIT: P34984, EVALUATION: 1.00e-86
OTHER INFORMATION: EST_HUMAN HIT: BF116115.1, EVALUATION: 0.00e+00
OTHER INFORMATION: NT HIT: U86281.1, EVALUATION: 0.00e+00
US-09-864-761-30527

Query Match          52.8%; Score 535.2; DB 10; Length 933;
Best Local Similarity 74.8%; Pred. No. 3,1e-164;
Matches 697; Conservative 0; Mismatches 233; Indels 2; Gaps 2;

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Db 753 TTCTTCTCTACACCTGCTGCTGCTGACATGCCCTACACCCCAACACAGCTGCCAG 694
OY 291 ATGCTGATGAACCTCTCTGATCCAGCCCAAGCCCAATCTCTTGGGGGCGATGATGAG 350
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OY 351 ACCCTTCTGATTTTCCATCTTGTGCTGACAGAAATGCTCTCTGCTGCTGATGCTAT 410
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RESULT 15
US-09-747-835A-41
Sequence 41, Application US/09747835A
GENERAL INFORMATION:
APPLICANT: Yamazaki, Victoria
APPLICANT: Tang, Y. Tom
APPLICANT: Liu, Chenghua
APPLICANT: Zhou, Ping
APPLICANT: Wang, Dunrui
APPLICANT: Zhang, Jie
APPLICANT: Ren, Feiyan
APPLICANT: Asundi, Vinod
APPLICANT: Drmanac, Radoje T
TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO G PROTEIN-COUPLED RECEPTOR-L
FILE REFERENCE: HVS-37CIP
CURRENT APPLICATION NUMBER: US/09/747,835A
CURRENT FILING DATE: 2002-03-08
PRIOR APPLICATION NUMBER: US 09/729,739
PRIOR FILING DATE: 2000-12-04

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; PRIOR APPLICATION NUMBER: US 09/653,450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US 09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US 09/598,042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 41
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (485)..(1411)
; US-09-747-835A-41

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Query Match      50.4%; Score 511.4; DB 10; Length 1782;
Best Local Similarity 72.7%; Pred. No. 2.8e-156;
Matches 703; Conservative 0; Mismatches 256; Indels 8; Gaps 3;

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DB 521 CTACTGGGATTTCTCTGGGCCCAAGGATTCAGATGCTCTCTTGGGCTCTTCCTCCCTG 580
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seq.name: /cgn2\_6/prodata/2/lna/6A.COMB.seq:US-08-467-947A-1  
seq\_documentation\_block:  
Sequence 1, Application US/08467947A  
Patent No. 6090575  
GENERAL INFORMATION:  
APPLICANT: LI, YI  
APPLICANT: CAO, LIANG  
APPLICANT: NI, JIAN  
APPLICANT: GENTZ, REINER  
APPLICANT: BULT, CAROL J.  
APPLICANT: SUTTON III, GRANGER G.  
APPLICANT: ROSEN, CRAIG A.  
TITLE OF INVENTION: Polynucleotides Encoding Human G-Protein  
TITLE OF INVENTION: Coupled Receptor GPR1  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
STREET: 1100 NEW YORK AVE., NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: FLOPPY DISK  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,947A  
FILING DATE: 08-JUN-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/04079  
FILING DATE: 30-MAR-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC R.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.1140002/EKS/KLM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1713 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 116..1003  
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178 CCGGGCCCAAGATTCAGATGTCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 227

